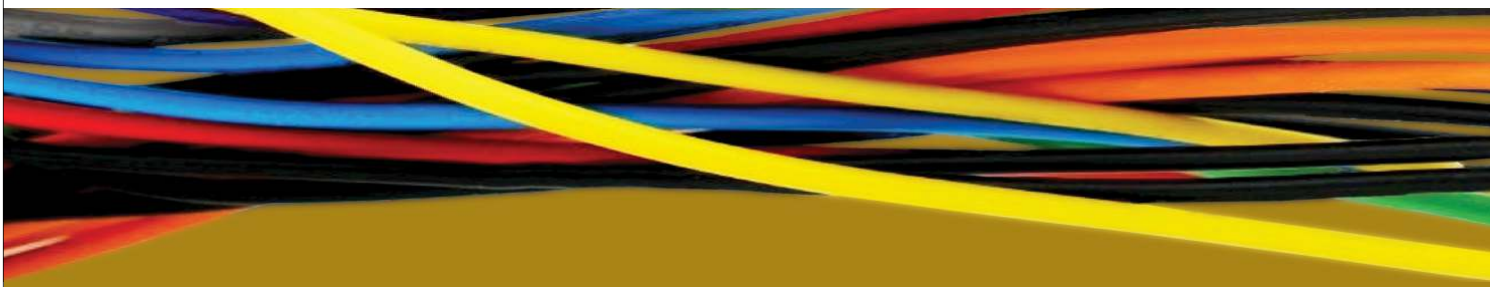
THAI WONDERFUL WIRE CABLE



WIRE AND CABLE | POWER CORD | WIRE HARNESS

SINCE 1991

WWW.THAIWONDERFUL.COM

Revision 7.0

CONTENTS (1)

* Labeled is insulation wire . According to the wire's Thai Wonderful certificate.

MADE IN THAILAND

All products are in this catalogue which are RoHS2 Compliance.

The specification is in this catalogue which are reference only. Please contact to request an official specification from sales office.

CONTENTS (2)

MADE IN THAILAND

All products are in this catalogue which are RoHS2 Compliance.

The specification is in this catalogue which are reference only. Please contact to request an official specification from sales office.

CONTENTS : Temperature

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MADE IN THAILAND

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CONTENTS : Voltage

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MADE IN THAILAND

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Year 1990 THAI WONDERFUL was established in Thailand in 1990 with a capital investment of one hundred million Thai Bahts. Establish the factory in Phantong, Chonburi, and the headquarters in Bangkok.

Year 1991 WIRE CABLE products that meet the "UL, CSA" standard , Manufacturing of the "CHRISMAS WIRE" ,Manufacturing products "HOOK-UP WIRE, COMPUTER CABLE, and FLEXIBLE CORDS."

Year 1992 Commenced manufacturing of the "WIRE HARNESS & POWER SUPPLY CORD" Products that meet the "UL, CSA" specification

Year 1993 Commencement of manufacturing for "Thai Industrial Standard (TIS) and Telecommunication cable (TOT)

Year 1994 Products that meet the "T-MARK standard" (JAPAN)

Year 1995 Products that have obtained approval according to the "VDE, SEV, DEMKO, SEMKO, NEMKO, OVE, SWISS, IMQ, CEBEC FIMKO, KEMA standard"(+EUROPEAN NATIONS)

Year 1996 Capital investment increased to 130,000,000 Thai Bahts.The factory has obtained official approval from the "ISO 9002:1994" quality system (BVQI).

Year 1997 Capital investment increased to 194,000,000 Thai Bahts .Bangkok office relocated to the Thosaphol land structure in BANGNA BANGKOK. Products with a "-F mark" (JAPAN) approval

Year 1998 Transfer the production line for wire harnesses and power cords to a new building. Products with "NF" (France) approval

Year 1999 System of quality approval at the factory "ISO-9002:1994" (MASIC)

Year 2002 UL-accredited factory quality system "ISO-9002:1994" .The quality system of the factory has been revised from "ISO-9002:1994" to ISO-9001:2000 (MASIC, UL, and BVQI).

Year 2003 Every product is RoHS compliant. Accredited by the factory, "ISO 14001:1996" (BVQI) .Products bearing the "K-mark" (Korea)

Year 2004 Products approved as "UL Halogen Free" and ICP Machine Installation (RoHS-Checked)

Year 2005 Production of "ALUMINIUM CABLE" has commenced.

Year 2006 "ISO 14001:2004" should replace "ISO 14001:1996."

Year 2008 Commenced manufacturing of "Cross-link PE & PVC Wire" products. Establish a sales office in Hanoi, Vietnam.

Year 2009 Approved by the factory ISO/TS 16949:2009 (UL)

Year 2010 Venture capital in Vietnam, erect a new "Wonderful Vietnam" factory.

Year 2011 The 20th anniversary "**THAI WONDERFUL**" .Started production at the Vietnam Plant

Year 2012 Commence production of CAT5E and CAT6 UTP cables

Year 2013 Cross-link wire production commencing with an E-beam machine

Year 2018 Solar PV cable that has been approved by TUV.Commencement of photovoltaic cable manufacturing by Ebeam machine. DQS updates the ISO 9001:2015 . DQS has revised TS16949 to IATF16949:2016. Approved products according to the "India and Israel standard"

Year 2021 The 30th anniversary "**THAI WONDERFUL**" . Moved the production line for wire harnesses and power cords to a new building. Production of "Pxxge Cable" commenced.

Year 2023 Commenced manufacturing of "TEFLON" products. "Silicone rubber cable" product manufacturing launched. Approved products for "EV Cable EVE Cable"

THAILAND, VIETNAM, TAIWAN, CHINA, USA

WONDERFUL HI-TECH CO., LTD.
Located：Taipei, Taiwan
Web：http://www.wontex.com
E-Mail：sales@wontex.com.tw
Established：Jun, 1978
Land Area：1,513.98 m²
Construction Area：825 m²
Main Product
LAN、RF Coaxial Cable、Hook Up Wire

WONDERFUL PHOTOELECTRICITY (DONG GUAN) CO., LTD.
Located：Dongguan China
Web：https://www.wonderful-wire.com.cn
Established：May, 1988
Land Area：60,000 m²
Construction Area：22,590 m²
Main Product
Power Cable、Hook Up Wire、Computer Cable、
Flat Ribbon Cable、LAN Cable

WANSHIH ELECTRONIC CO.,LTD
Located：Taipei Taiwan
Web：www.wanshih.com.tw
E-Mail：sales@wanshih.com.tw
Established：Apr. 1987
Construction Area：2,800 m²
Main Product
NB Cable/Mini-Coaxial Cable、LCD TV/Mini-Coaxial
Cable/Wire Harness、Mobile phone Cable、
Wire Harness Cable

SIYANG WANSHIH ELECTRONIC ELEMENT CO.,LTD
Located：Siyang China
Construction Area：3,300 m²
Main Product
New Electronic Component、Power Cord、Antenna

ABA INDUSTRY INC.(U.S.A)
Located：Los Angeles, USA
Web：https://www.aba-cable.com/
E-Mail：sales@abacable.com
Established：1996
Main Product
Hook UP Wire、RF Coaxial Cable、LAN Cable、Network Accessories

WONDERFUL (VIETNAM) WIRE & CABLE CO., LTD
Located：Hai Duong Province, Vietnam
E-Mail：rafale@vwt-wonderful.com
Established：2010
Land Area：70,000 m²
Construction Area：28,500 m²
Main Product
Hook up wire, AV wire, and PVC cable

WONDERFUL CABLING SYSTEM CORP.
Located：Taipei, Taiwan
Web：http://www.wondernet.com.tw
E-Mail：jason@wondernet.com.tw
Established：2006
Land Area：200 m²
Construction Area：200 m²
Main Product
Cooper & Fiber optical Cabling Systems solution product
CAT.5E/CAT.6/CAT.6A/CAT.7

SHANGHAI ELITECH TECHNOLOGY CO.,TD
Located：Shanghai China
TEL：86-21-33676880~1
FAX：86-21-33676882
Web：http://www.wontex.net
Established：2009

SUZHOU WANSHIH ELECTRONIC ELEMENT CO.,LTD.
Located：Suzhou China
E-Mail：s2121@wanshih.com.cn
Established：Dec.1994
Construction Area：64,000 m²
Main Product
NB Cable/Mini-Coaxial Cable/Chemical Cable、
Mobile phone Cable、Wire Harness Cable

ISO system certificate

ISO 9001:2015 IATF 16949:2016

ISO 14001:2015

International standards

CANADA · BELGIUM · DENMARK · GERMANY · FRANCE · ITALY

FINLAND · NORWAY · AUSTRIA · SWITZERLAND · SWEDEN · NETHERLANDS

JAPAN · ISRAEL · MALAYSIA · THAILAND · KOREA · AUSTRALIA

SINGAPORE · CANADA · INDONESIA · UNITED KINGDOM (UK)

BSMI · INDIA

THAI WONDERFUL 's Market

Australia
Austria
Belgium
Brazil
Burma
Canada
China
Egypt
Hong Kong
India
Indonesia
Italy
THAILAND
Japan
Laos
Malaysia
Mexico
Netherlands
Philippines
Poland
Singapore
South Korea
Taiwan
Turkey
U.S.A.
Vietnam

E150612	Single-Conductor, Thermoplastic Insulation							
	1007	1015	1032	1061	1095	1185	1195	1208
	1226	1227	1230	1283	1330	1331	1332	1333
	1354	1365	1429	1430	1431	1500	1533	1569
	1571	1617	1618	1640	1672	1691	1709	1710
	1716	1726	1727	1792	1813	1865	1867	1887
	1894	1897	1901	10002	10064	10087	10126	10138
	10231	10272	10362	10368	10369	10452	10602	10627
	10800	10913	10921	11079	11331	11338	11627	

E150612	Multiple-Conductor, Thermoplastic Insulation							
	2095	2464	2468	2517	2547	2750	2854	2894
	2895	2919	2990	20080	20276	20288	20327	21016
	21099	21100	21143	21307	21311	21451	21452	21453
	21454	21455	21456	21472	21473	21474	21476	21520

E150612	Single-Conductor, Thermoset Insulation							
	3173	3265	3266	3271	3289	3302	3317	3320
	3321	3363	3364	3385	3386	3398	3443	3610
	3619	3766	30063					

E150612	Multiple-Conductor, Thermoset Insulation
	4478

E150612	Appliance Wiring Material Certified for Canada
	Appliance wiring material - AWM Class I, Group A
	Appliance wiring material - AWM Class I, Group A, B or A/B
	Appliance wiring material - AWM Class I, II or I/II, Group A
	Appliance wiring material - AWM Class I, II or I/II, Group A, B or A/B
	Coil lead wire - CL1251
	Equipment wire - REW
	Equipment wire - TEW
	Electronic wire - Type TR-64

E150631	Flexible Cord Certified for Canada
	SPT-3, SPT-2, SPT-1, NISPT-2, SJT, SVT, ST,
	SJTW, SJTOW, NISPT-1, SPT-2W, STOW, SPT-1W, DRT

PSE	HIV	VSF	HVSF	VFF	HVFF	VCT	VCTF	VCTFK
	HVCTFK	VVF	HHFF					
IEC	VDE	NEMKO	SEMKO	FIMKO	OVE	DENKO	KEMA	AWISS
	CEBEC	MF	IMQ					
	H03VV-F	H03VVH2-F	H05VV-F	H05VVH2-F	H05V2V2	H05V-K	H07V-K	H05V2-F
TIS	IEC01	IEC02	IEC05	IEC06	IEC43	IEC52	IEC53	IEC57
AS/NZS	GTSA	LTSA						
SNI	H03VV-F	H03VVH2-F	H05VV-F	H05VVH2-F				
KTL	H03VV-F	H03VVH2-F	H05VV-F	H05VVH2-F				

E 340730	PHOTOVOLTAIC PV CABLE,	REF: UL 4703
E 353814	ELECTRIC VEHICLE CABLE,	REF: UL 62 OR UL 2263
E 77976	THERMOPLASTIC INSULATED WIRE	REF: UL 83
E 142980	COMMUNICATION CABLE	REF: UL 444

AWG :AMERICAN WIRE GAUGE

Gage	Diameter		Area			Weight	No./mm
	Mils	Millimeter	Circular Mils	Square Inch	Square Millimeter		
A.W.G	Mils	mm	cm	in	mm	kg/km	
1	289.3	7.348	83.694	0.06573	42.41	377	1/7.348
		8.508				379	19/1.690
		8.500				379	37/1.210
		8.480				377	61/0.940
2	257.6	6.544	66.358	0.05212	33.63	299	1/6.543
		7.410				299	7/2.470
		7.551				299	19/1.500
		7.590				302	37/1.080
4	204.3	5.189	41.738	0.03278	21.15	188	1/5.189
		5.960				188	7/1.960
		5.991				188	19/1.190
		5.992				188	37/0.853
		6.032				192.70	133/0.455
		6.036				191	420/0.254
6	162	4.115	26.244	0.02061	13.3	118.20	1/4.115
		4.770				119	7/1.560
		4.829				121	19/0.954
		4.749				118	37/0.676
		4.803				121	266/0.254
8	128.5	3.264	16.512	0.01297	8.368	74.39	1/3.264
		3.690				74.13	7/1.230
		3.771				74.60	19/0.749
		3.760				74.40	37/0.536
		3.783				75	133/0.284
10	10.9	2.588	10.384	0.008156	5.262	46.78	1/2.588
		2.961				47.73	7/0.987
		3.005				47.40	19/0.597
		3.017				47.80	105/0.254
		2.974				46.40	259/0.160
12	80.81	2.053	6.53	0.005129	3.309	29.42	1/2.050
		2.325				29.43	7/0.775
		2.366				29.37	19/0.47
		2.374				29.58	65/0.254
		2.395				30.10	168/0.16
14	64.08	1.628	4.106	0.003225	2.081	18.50	1/1.630
		1.845				18.53	7/0.615
		1.877				18.50	19/0.373
		1.885				18.66	41/0.254
		1.894				18.81	105/0.160
16	50.82	1.291	2.583	0.002029	1.309	11.64	1/1.290
		1.464				11.67	7/0.488
		1.502				11.83	26/0.254
		1.483				11.65	65/0.160
18	40.3	1.024	1.624	0.001275	0.8226	7.313	1/1.020
		1.212				7.99	7/0.404
		1.178				7.28	16/0.254
		1.198				7.54	34/0.180
		1.163				7.16	41/0.160
20	30	0.8118	1.021	0.0008019	0.5174	4.60	1/0.813
		0.9600				5.01	7/0.320
		0.9421				4.65	21/0.180
		0.9305				4.54	26/0.160
22	25.35	0.6439	642.6	0.0005047	0.3256	2.895	1/0.643
		0.7650				3.186	7/0.254
		0.7524				2.97	17/0.160
24	20.1	0.5106	404	0.0003173	0.2047	1.82	1/0.511
		0.6000				1.96	7/0.200
		0.60525				1.92	11/0.160
26	15.94	0.4049	254.1	0.0001996	0.1288	1.145	1/0.404
		0.4740				1.223	7/0.160

AWG to mm² CONVERSION TABLE

AW G/kcmil	[mm²]*
20	0.52
18	0.82
16	1.31
14	2.08
12	3.31
10	5.26
8	8.36
6	13.3
4	21.2
2	33.6
1	42.4
1/0	53.5
2/0	67.4
3/0	85.0
4/0	107
250	127
300	152
350	177
400	203
450	228
500	253
600	304
750	380
800	405
1000	507

mm² to AWG CONVERSION TABLE

mm²	[mm²]*	AW G/kcmil
0.5	0.52	20
0.75	0.82	18
1.5	1.31	16
2.5	2.08	14
2.5	3.31	12
4	3.31	12
6	5.26	10
10	8.36	8
16	13.3	6
25	21.2	4
35	33.6	2
35	42.4	1
50	53.5	1/0
70	67.4	2/0
95	85.0	3/0
95	107	4/0
120	107	4/0
120	127	250
150	152	300
185	177	350
185	203	400
240	228	450
240	253	500
300	304	600
400	380	750
400	405	800
500	507	1000

* Equivalent mm² cross - section area

UL ,CSA ,CUL standard

PVC-insulated single and multi conductor wiring cables according to UL-AWM and CSA-TEW standards are used in switchboard and distribution cabinets of electrical equipment and as well as for the installation of machines and transformers in protecting tubes.PVC-insulation is allowed at maximum temperature range of 105°C.The indicated values stated in the following tables are considered as guiding values. In critical situation the rules and recommendations for the current ratings should be followed.

For single conductor cables at ambient temperature up to 30°C

AWG No.	Cross-section mm²	Load rating A	AWG No.	Cross-section mm²	Load rating A
24	0.21	3.5	3	26.65	154
22	0.33	5	2	33.61	170
20	0.52	6	1	42.38	180
18	0.82	9.5	1/0	53.43	200
16	1.31	20	2/0	67.4	225
14	2.08	24	3/0	84.97	275
12	3.32	34	4/0	107.17	325
10	5.26	52	250	127	345
8	8.35	75	300	152	390
6	13.29	95	400	178	415
4	21.14	120			

for multi conductor cables at ambient temperature up to 30°C

AWG No.	Cross-section mm²	Load rating up to 3 conductors in A	Load rating 4-6 conductors in A	Load rating 7-24 conductors in A	Load rating 25-42 conductors in A	Load rating 43 and above in A
24	0.21	2	1.6	1.4	1.2	1
22	0.33	3	2.4	2.1	1.8	1.5
20	0.52	5	4	3.5	3	2.5
18	0.82	7	5.6	4.9	4.2	3.5
16	1.31	10	8	7	6	5
14	2.08	15	12	10.5	9	7.5
12	3.32	20	16	14	12	10
10	5.26	30	24	21	18	15
8	8.35	40	32	28	24	20
6	13.29	55	44	38	33	27
4	21.14	70	56	49	42	35
3	26.65	80	64	56	48	40
2	33.61	95	76	66	57	57
1	42.38	110	88	77	66	55

Correction-factors at ambient temperature over 30°C

Ambient temperature in °C	Load rating values of above tables correction-factors
31 - 40	0.82
41 - 45	0.71
46 - 50	0.58

UL1581, IEC60288 AND HD383

UL 1581 Table 30.2, 30.3, 30.4 Conductor Resistance (20˚C Max)

AWG	Solid Copper		Strand Copper	
	Bare	Tinned	Bare	Tinned
32	542.00 Ohm/Km	563.00 Ohm/Km	-	-
30	347.00 Ohm/Km	361.00 Ohm/Km	354.00 Ohm/Km	381.00 Ohm/Km
28	218.00 Ohm/Km	227.00 Ohm/Km	223.00 Ohm/Km	239.00 Ohm/Km
26	138.00 Ohm/Km	143.00 Ohm/Km	140.00 Ohm/Km	150.00 Ohm/Km
24	85.90 Ohm/Km	89.30 Ohm/Km	87.50 Ohm/Km	94.20 Ohm/Km
22	54.30 Ohm/Km	56.40 Ohm/Km	55.00 Ohm/Km	59.40 Ohm/Km
20	33.90 Ohm/Km	35.20 Ohm/Km	34.60 Ohm/Km	36.70 Ohm/Km
18	21.40 Ohm/Km	22.20 Ohm/Km	21.80 Ohm/Km	23.20 Ohm/Km
16	13.50 Ohm/Km	14.00 Ohm/Km	13.70 Ohm/Km	14.60 Ohm/Km
14	8.45 Ohm/Km	8.78 Ohm/Km	8.62 Ohm/Km	8.96 Ohm/Km
12	5.31 Ohm/Km	5.53 Ohm/Km	5.43 Ohm/Km	5.64 Ohm/Km
10	3.34 Ohm/Km	3.48 Ohm/Km	3.40 Ohm/Km	3.55 Ohm/Km
8	2.10 Ohm/Km	2.16 Ohm/Km	21.4 Ohm/Km	2.23 Ohm/Km
6	1.32 Ohm/Km	1.36 Ohm/Km	1.35 Ohm/Km	1.40 Ohm/Km

Conductor Resistance (DIN VDE 0295, IEC 60228, HD 383)

The values are extracted from DIN VDE 0295 (equivaient with the international standard IEC 60228 and HD 383), according to cross-sections and conductor classes, beginning with nominal cross-section of 0,5 mm The diameters of the single wires of each bunched conductor are not permitted to exceed the maximum stated values (ref. DIN VDE 0295), which are required to conform the maximum resistance value of the bunched conductors at 20˚C

Nominal Cross-section in mm^2	Copper conductor plain wiress (Ohm/km)		Copper conductor tinned wires	
	class 1 & 2	class 5 & 6	class 1 & 2	class 5 & 6
0.05	-	380	-	392
0.08	-	237	-	244
0.11	-	170	-	175
0.126	-	150	-	155
0.14	-	134	-	138
0.22	-	96	-	99
0.25	-	76	-	79
0.34	-	53	-	56
0.5	36	39	36.7	40.1
0.75	24.5	26	24.8	26.7
1	18.1	19.5	18.2	20
1.5	12.1	13.3	12.2	13.7
2.5	7.41	7.98	7.56	8.21
4	4.61	4.95	4.7	5.09
6	3.08	3.3	3.11	3.39
10	1.83	1.91	1.84	1.95
16	1.15	1.21	1.16	1.24
25	0.272*	0.78	0.734	0.795
35	0.524*	0.554	0.529	0.56
50	0.387*	0.386	0.391	0.93
70	0.268*	0.272	0.27	0.277
95	0.193*	0.206	0.195	0.21
120	0.153*	0.161	0.154	0.164
150	0.124*	0.129	0.126	0.32
185	0.0991	0.106	0.1	0.108
240	0.0754	0.0801	0.0762	0.0817
300	0.0601	0.0641	0.0607	0.0654
400	0.047	0.0486	0.0475	0.0495
500	0.0366	0.0384	0.0369	0.0391
630	0.0283	0.0287	0.0286	0.0292

class 1 = single conductor conductor for single and multi conductor cables
class 2 = multi conductor conductor for single and multi conductor cables
class 5 = fine wire copper conductor for single and multi conductor cables
class 6 = extra wire copper conductor for single and multi conductor cables
* for mineral-insulated cables (clas 1 up to 150 mm^2)

Description:

High temperatures and harsh environments.
Inert in most chemical environments and
Excellent resistance to high temperatures.
Outstanding low-temperature toughness.
Extremely low flammability, excellent weather resistance and electrical stability.

Feature:

Chemical , electrical and medical applications
Automobile electrical vehicles. (ISO-6722)
Temperatures ranging from -100° C to +260°
UL , CUL approval

Insulation (Jacket)	
ETFE	Ethylene tetrafluoroethylene
PFA	Perfluoroalkoxy
FEP	Fluorinated Ethylene Propylene
Conductor Type	
Tin Coated Copper (Tcu)	Operating range is from (-17°C-121°C), or up to 149°C as an option.
Silver Coated Copper (Ag- Cu)	Operating temperatures up to 200°C. Silver plated copper wire would be used
Nickel Coated Copper (Ni- Cu)	Operating temperature of copper and copper alloy conductors to 250-260°C.

Insulation type	ETFE	PFA	FEP
	Ethylene tetrafluoroethylene	Perfluoroalkoxy	Fluorinated Ethylene Propylene
Nominal Temperature Ratings	**-100°C to 150°C**	**-100°C to 260°C**	**-80°C to 200°C**
Chemical Resistance	Excellent	Excellent	Excellent
Fire Resistance	Good	Excellent	Excellent
UV Resistance	Excellent	Good	Excellent
Durability	Excellent	Excellent	Good
Flexibility	Excellent	Good	Fair

Automoblie type, heat resistance and material

Type		Heat resistance class (temperature class)	Symbol	insulation material
General		80°C	AV. HEB, or HDEB	Polyvinyl chloride mixture
		85°C	HF	Halogen-free mixture
Thin wall 1		80°C	AVS	Polyvinyl chloride mixture
Thin wall 2		80°C	AVSS, CAVS [a)], or CAV [a)]	Polyvinyl chloride mixture
		85°C	HFSS or CHFS [a)]	Halogen-free mixture
Thin wall 3		80°C	CAVUS [a)]	Polyvinyl chloride mixture
		85°C	CHFUS [a)]	Halogen-free mixture
Earth		80°C	EB	Polyvinyl chloride mixture
Heat resistance 1	General	100°C	AVX, AVFX, or HEBX	Cross-linked PVC mixture
	Thin wall 1	100°C	AVSX or AVXS	Cross-linked PVC mixture
	Thin wall 2	100°C	AVSSX	Cross-linked PVC mixture
			AVSSH	Heat resistant PVC mixture
	Earth	100°C	EBX	Cross-linked PVC mixture
Heat resistance 2	General	120°C	AEX	Cross-linked polyethylene mixture
	Thin wall 2	120°C	AESSX	Cross-linked polyethylene mixture

Note 1: The meanings of the symbols for cable types are as follows.

AV, HEB, and **HDEB:** Vinyl insulated low-voltage cables for automobiles (AV shall have a construction not specified in JIS C3406.)

HF: Halogen-free insulated low-voltage cables for automobiles

AVS: Thin wall low-voltage cables for automobiles, type 1

AVSS, CAVS, and **CAV:** Thin wall low-voltage cables for automobiles, type 2

HFSS: Extremely thin wall halogen-free insulated low-voltage cables for automobiles

CHFS: Compressed conductor extremely thin wall halogen-free insulated low-voltage cables for automobiles

CAVUS: Thin wall low-voltage cables for automobiles, type 3

CHFUS: Compressed conductor ultra thin wall halogen-free insulated low-voltage cables for automobiles

EB: Earth bond low-voltage cables for automobiles

AVX, AVFX, and **HEBX:** Croos-linked vinyl insulated heat resistant low-voltage cables for automobiles

AVSX and **AVXS:** Thin wall type cross-linked PVC insulated heat resistant low-voltage cables for automobiles

AVSSX: Extremely thin wall type cross-linked PVC insulated heat resistant low-voltage cables for automobiles

AVSSH: Extremely thin wall type PVC insulated heat resistant low-voltage cables for automobiles

EBX: Cross-linked vinyl insulated heat resistant earth bond low-voltage cables for automobiles

AEX: Cross-linked polyethylene insulated heat resistant low-voltage cables for automobiles

AESSX: Extremely thin wall type cross-linked PVC insulated heat resistant low-voltage cables for automobiles

Note 2: The meanings of the heat resistant are as follows.

80°C: Continuous heat resistance temperature at which 100% insulation elongation can be secured for 10,000 hours

85°C: Temperature at which cracking does not occur when a specified bending force is applied to the insulation after it is heated for 3,000 hours

100°C: Continuous heat resistance temperature at which 100% insulation elongation can be secured for 10,000 hours

120°C: Continuous heat resistance temperature at which 100% insulation elongation can be secured for 10,000 hours

Note [a)]: The symbols **CAVS, CAV, CAVUS, CHFS,** and **CHFUS** represent the construction of conductors compressed in

PVC insulated / 80,105 °C / 300V

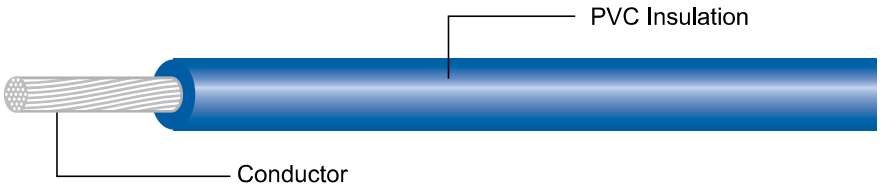
Application

Internal wiring of electrical, electronic and medical equipment.

Product Description

Standard	UL, CUL AWMTR-64
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	**UL 1007 80 °C 300V**
	UL 1569 105 °C 300V
Flammability	UL VW-1, CUL FT1
Insulation	Heat resistant PVC which is RoHS Complied wire.
Usage	Uniform thickness of wire to ensure easy stripping and cutting
	Resistant to acids, oils, alkalines, moisyure and fungus

Construction



UL Style CUL Type	Conductor		Insulation Thickness	Overall Diameter Approx	Standard Put-Up		Conductor Resistance at 20 °C
	(AWG)	(No./mm)	(mm)	(mm)	(ft/coil)	(M/coil)	(ohm/km)
UL 1569 UL 1007 AWM TR-64 (Stranded)	30	7/0.102	0.38	1.10	11500	3500	381.00
	28	7/0.127		1.20	11500	3500	239.00
	26	7/0.160		1.30	10000	3050	150.00
	24	11/0.160		1.40	2000	610	94.20
	22	17/0.160		1.60	2000	610	59.40
	20	21/0.180		1.80	2000	610	36.70
	18	34/0.180		2.10	2000	610	23.20
	16	26/0.253		2.40	2000	610	14.60
UL 1569 UL 1007 AWM TR-64 (OS-1)	26	7/0.160		1.30	2000	610	150.00
	24	7/0.203		1.45	2000	610	94.20
	22	7/0.253		1.60	2000	610	59.40
	20	7/0.320		1.80	2000	610	36.70
	18	7/0.404		2.10	2000	610	23.20
	16	7/0.488		2.30	2000	610	14.60
UL 1569 UL 1007 AWM TR-64 (Solid)	26	1/0.404		1.25	2000	610	143.00
	24	1/0.511		1.35	2000	610	89.30
	22	1/0.643		1.50	2000	610	56.40
	20	1/0.813		1.65	2000	610	35.20
	18	1/1.024		1.85	2000	610	22.20
	16	1/1.290		2.15	2000	610	14.00

PVC insulated / 105 °C 600V

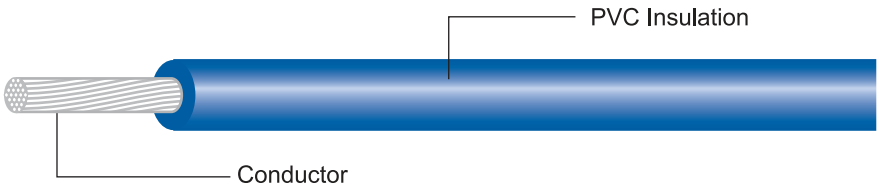
Application

Internal wiring of electrical, electronic and medical equipment.

Product Description

Standard	UL, CUL Type TEW
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	105 °C 600V
Flammability	UL VW-1, CUL FT1
Insulation	Heat resistant PVC which is RoHS Complied wire.
Usage	Uniform thickness of wire to ensure easy stripping and cutting Resistant to acids, oils, alkalines, moisyure and fungus

Construction



UL Style CUL Type	Conductor		Insulation Thickness	Overall Diameter Approx	Standard Put-Up		Conductor Resistance at 20 °C
	(AWG)	(No./mm)	(mm)	(mm)	(ft/coil)	(M/coil)	(ohm/km)
UL 1015 (TEW) (Stranded)	30	7/0.102	0.76	1.85	2000	610	381.00
	28	7/0.127		1.90	2000	610	239.00
	26	7/0.160		2.05	2000	610	150.00
	24	11/0.160		2.20	2000	610	94.20
	22	17/0.160		2.40	2000	610	59.40
	20	21/0.180		2.55	2000	610	36.70
	18	34/0.180		2.80	2000	610	23.20
	16	26/0.253		3.10	2000	610	14.60
	14	41/0.253		3.50	1000	305	8.96
	12	65/0.253		3.90	1000	305	5.64
	10	105/0.253		5.10	1000	305	3.54
	8	165/0.253	1.25	7.40	305	100	2.23
	6	266/0.253	1.55	8.90	305	100	1.40
	4	420/0.253		10.50	305	100	0.88
UL 1015 (TEW) (OS-1)	22	7/0.254	0.76	2.38	2000	610	59.40
	20	7/0.320		2.55	2000	610	36.70
	18	7/0.404		2.80	2000	610	23.20
UL 1015 (TEW) (Solid)	26	1/0.404		2.00	2000	610	143.00
	24	1/0.511		2.10	2000	610	89.30
	22	1/0.643		2.25	2000	610	56.40
	20	1/0.813		2.40	2000	610	35.20
	18	1/1.024		2.65	2000	610	22.20
	16	1/1.290		2.90	2000	610	14.00
	14	1/1.630		3.25	2000	610	8.78
	12	1/2.050		3.65	1000	305	5.53
	10	1/2.588		4.20	1000	305	3.47

PVC insulated / 90 °C 1000V(DC)

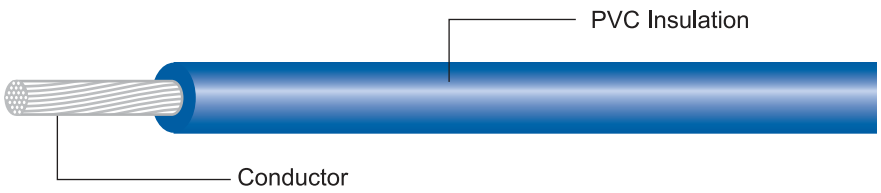
Application

Internal wiring of electrical, electronic and medical equipment.

Product Description

Standard	UL, CUL AWM I A
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	90 °C 1000V(DC)
Flammability	UL VW-1, CUL FT1
Insulation	Heat resistant PVC which is RoHS Complied wire.
Usage	Uniform thickness of wire to ensure easy stripping and cutting Resistant to acids, oils, alkalines, moisyure and fungus

Construction



UL Style CUL Type	Conductor		Insulation Thickness	Overall Diameter Approx	Standard Put-Up		Conductor Resistance at 20 °C
	(AWG)	(No./mm)	(mm)	(mm)	(ft/coil)	(M/coil)	(ohm/km)
UL 1032 AWM I A	24	7/0.203	0.76	2.20	2000	610	94.20
	22	7/0.253		2.35	2000	610	59.40
	20	21/0.180		2.55	2000	610	36.70
	18	34/0.180		2.80	2000	610	23.20

SR PVC insulated / 80 °C 300V

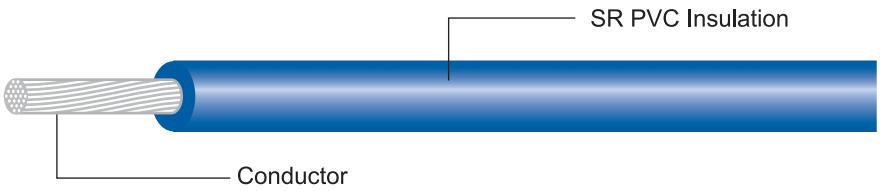
Application

Internal wiring of electrical, electronic and medical equipment.

Product Description

Standard	UL, CUL AWM I A
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	80 °C 300V
Flammability	UL VW-1, CUL FT1
Insulation	Heat resistant SR PVC which is RoHS Complied wire.
Usage	Uniform thickness of wire to ensure easy stripping and cutting Resistant to acids, oils, alkalines, moisyure and fungus

Construction



UL Style CUL Type	Conductor		Insulation Thickness	Overall Diameter Approx	Standard Put-Up		Conductor Resistance at 20 °C
	(AWG)	(No./mm)	(mm)	(mm)	(ft/coil)	(M/coil)	(ohm/km)
UL 1061 AWM I A (Stranded)	30	7/0.102	0.25	0.80	11480	3500	381.00
	28	7/0.127		0.90	11480	3500	239.00
	26	7/0.160		1.00	11480	3500	150.00
	24	7/0.203		1.10	2000	610	94.20
	22	7/0.253		1.30	2000	610	59.40
	20	7/0.320		1.50	2000	610	36.70
	18	7/0.404		1.70	2000	610	23.20
	16	26/0.253		2.00	2000	610	14.60
UL 1061 AWM I A (Solid)	30	1/0.253		0.76	11480	3500	361.00
	28	1/0.320		0.83	11480	3500	227.00
	26	1/0.404		0.90	11480	3500	143.00
	24	1/0.511		1.02	2000	610	89.30
	22	1/0.643		1.15	2000	610	56.40
	20	1/0.813		1.32	2000	610	35.20
	18	1/1.024		1.52	2000	610	22.20
	16	1/1.290		1.80	2000	610	14.00
UL 1061 AWM I A (OS-1)	26	7/0.160		1.00	4000	1220	150.00
	24	7/0.203		1.10	2000	610	94.20
	22	7/0.253		1.30	2000	610	59.40
	20	7/0.320		1.50	2000	610	36.70
	18	7/0.404		1.80	2000	610	23.20

PVC insulated / 80 °C 300V

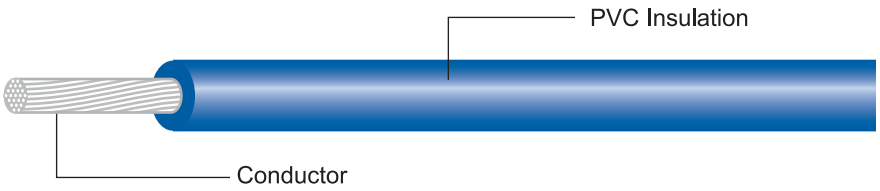
Application

Internal wiring of electrical, electronic and medical equipment.

Product Description

Standard	UL, CUL AWM I A
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	80 °C 300V
Flammability	UL VW-1, CUL FT1
Insulation	Heat resistant PVC which is RoHS Complied wire.
Usage	Uniform thickness of wire to ensure easy stripping and cutting Resistant to acids, oils, alkalines, moisyure and fungus

Construction



UL Style CUL Type	Conductor		Insulation Thickness	Overall Diameter Approx	Standard Put-Up	
	(AWG)	No/mm	(mm)	(mm)	(ft/coil)	(M/coil)
UL 10913	30	7/0.102	0.46	1.27	11500	3500
	28	7/0.127		1.35		
	26	7/0.160		1.45	10000	3050
	24	7/0.203		1.58	2000	610
	22	7/0.253		1.73		
	20	7/0.320		1.92		
	18	7/0.404		2.19		
	16	26/0.253		2.45		
UL 1095	30	7/0.102	0.34	0.95	11500	3500
	28	7/0.127		1.05		
	26	7/0.160		1.15	10000	3050
	24	7/0.203		1.30	2000	610
	22	7/0.253		1.45		
	20	7/0.320		1.60		
	18	7/0.404		1.90		
	16	26/0.253		2.25		

PVC insulated / Sheathed

Application

• For use in recordind studios, sound systems and electronic circuits.

Product Description

UL 1185 : 80 °C 300 V

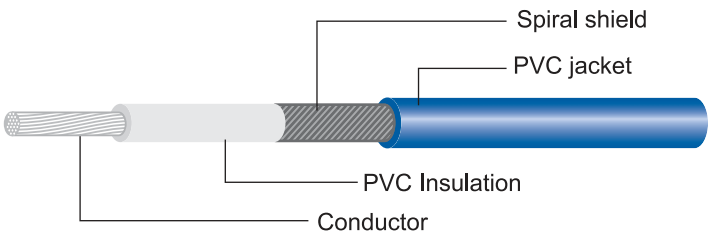
- Stranded or solid, tinned copper conductor. PVC isulation
- Tinned copper wire spiral shield.
- PVC jacketed single core.
- Use of spiral shield allows for fast simple termination.
- Pass UL VW-1& CUL FT1 flame test.

UL 2854 : 80 °C 30 V

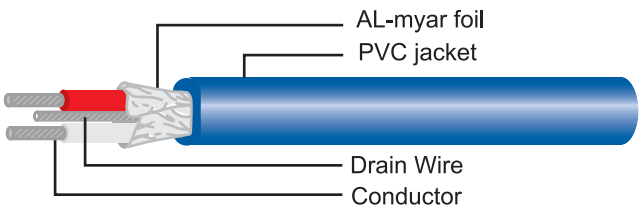
- Stranded, solid, tinned or top-coated copper conductor.
- Semi Rigid PVC Insuiation.
- Drain wire between insulated cores. and AL-Myiar foil
- Overail aluminum foil shield.
- Color-coded PVC jacketed fiat twin.
  Pass UL VW-1& CUL FT1 flame test.
  Insulation material of these wires doesn't use any PBDEs or PBBs as flome retardants at all.

Construction

UL 1185



UL 2854



UL Style CUL Type	Conductor		No. OF Core	Insulation Thickness	Spiral Shield	Jacket Thickness	Overall Diameter Approx	Standard Put-Up		Conductor Resistance at 20 °C)
	(AWG)	(No./mm)		(mm)	(No./mm)	(mm)	(mm)	(ft/coil)	(M/coil)	(Ohm/Km)
UI 1185 CUL AWM	30	7/0.102	1	0.38	37/0.102	0.40	2.20	2000	610	381.00
	28	7/0.127	1		39/0.102		2.30	2000	610	239.00
	26	7/0.160	1		30/0.127		2.50	2000	610	150.00
	24	11/0.160	1		35/0.127		2.60	2000	610	94.20
UI 2854	28	7/0.127	2	0.25	Al-mylar		1.75 x 3.05	2000	610	239.00
	26	7/0.160	2		Al-mylar		1.85 x 3.35	2000	610	150.00
	24	7/0.203	2		Al-mylar		2.00 x 3.65	2000	610	94.20
	26	7/0.160	3	0.25	57/0.102	0.45	3.20	2000	610	150.00
	24	7/0.203	3		72/0.102		3.50	2000	610	94.20

Noted : This specification is reference only .Please contact to request an official specification from sales office.

SR PVC insulated / 80,105 °C / 300V

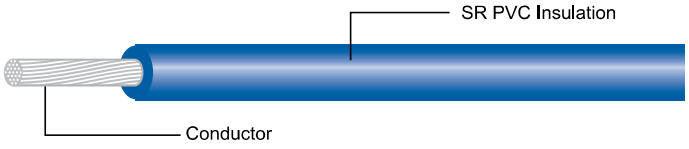
Application

Internal wiring of electrical, electronic and medical equipment.

Product Description

Standard	UL, CUL
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	UL 1195 80°C 300V
	UL 1208 80°C 300V
	UL 10452 80°C 300V
	UL 10921 105°C 300V
Flammability	UL VW-1, CUL FT1
Insulation	Heat resistant SR PVC which is RoHS Complied wire.
Usage	Uniform thickness of wire to ensure easy stripping and cutting
	Resistant to acids, oils, alkalines, moisyure and fungus

Construction



UL Style CUL Type	Conductor		Insulation Thickness (Minimum Average)	Overall Diameter Approx	Standard Put-Up	
	(AWG)	No/mm	(mm)	(mm)	(ft/coil)	(M/coil)
UL 1195	30	7/0.102	0.38	1.14	11500	3500
	28	7/0.127		1.20		
	26	7/0.160		1.30		
	24	7/0.203		1.50	10000	3050
	22	7/0.253		1.60	2000	610
	20	7/0.320		1.80		
	18	7/0.404		2.10		
	16	26/0.253		2.30		
	14	41/0.253		2.70	1000	305
UL 1208	30	7/0.102	0.33	1.04	11500	3500
	28	7/0.127		1.10		
	26	7/0.160		1.20		
	24	7/0.203		1.40	10000	3050
	22	7/0.253		1.50	2000	610
	20	7/0.320		1.70		
	18	7/0.404		2.00		
	16	26/0.253		2.20		
UL 10921	30	7/0.102	0.25	0.86	11500	3500
	28	7/0.127		0.94		
	26	7/0.160		1.10		
	24	7/0.203		1.20	10000	3050
	22	7/0.253		1.30	2000	610
	20	7/0.320		1.50		
	18	7/0.404		1.80		
	16	26/0.253		2.10		
UL 10452	16	26/0.253	0.61	2.90	1000	305
	14	41/0.253		3.20		
	12	65/0.253		3.70		
	10	105/0.255		4.80		
	8	165/0.253		5.70		
	6	266/0.253		6.80		

UL 10921 0 AWG-16 AWG Conductor size

PVC insulated / 105 °C 600V

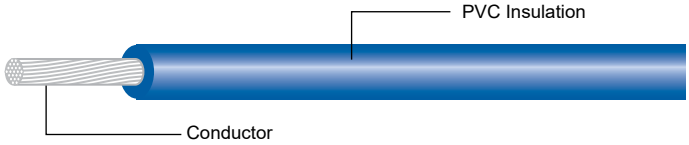
Application

Internal wiring of electrical, electronic and medical equipment.

Product Description

Standard	UL, CUL
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	105°C 600V
Flammability	UL VW-1, CUL FT1
Insulation	Heat resistant PVC which is RoHS Complied wire.
Usage	Uniform thickness of wire to ensure easy stripping and cutting
	Resistant to acids, oils, alkalines, moisyure and fungus

Construction



UL Style CUL Type	Conductor		Insulation Thickness (Minimum Average)	Overall Diameter Approx	Standard Put-Up	
	(AWG)	No/mm	(mm)	(mm)	(ft/coil)	(M/coil)
UL 1230	26	7/0.160	0.76	2.20	2000	610
	24	7/0.203		2.30		
	22	7/0.253		2.50		
	20	7/0.320		2.70		
	18	7/0.404		2.90		
	16	26/0.253		3.20		
	14	41/0.253		3.60	1000	305
	12	65/0.253		4.10		
	10	105/0.253		5.20		
UL 1283	8	165/0.253	1.53	7.70	305	100
	6	266/0.253		8.80		
	4	420/0.253		10.20		
	2	665/0.253		12.00		
UL 1897	26	7/0.160	0.89	2.50	2000	610
	24	7/0.203		2.60		
	22	7/0.253		2.70		
	20	7/0.320		2.90		
	18	7/0.404		3.20		
	16	26/0.253		3.50		
	14	41/0.253		3.90	1000	305
	12	65/0.253		4.30		
	10	105/0.255		5.40		
	8	165/0.253		6.30	305	100
	6	266/0.253		7.50		
	4	420/0.253		8.90		

XLPVC insulated / 80 °C 150V

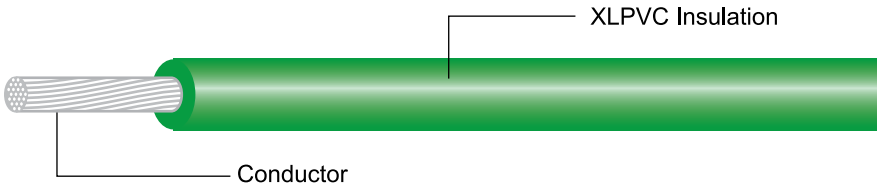
Application

Internal wiring of electrical, electronic and medical equipment and in appliances with the working high temperature

Product Description

Standard	UL, CUL AWM I A
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	80 °C 150V
Flammability	UL VW-1, CUL FT1
Insulation	Heat resistant XLPVC which is cross-linked by electron beam machine and stable thermally
Usage	Uniform thickness of wire to ensure easy stripping and cutting
	Resistant to acids, oils, alkalines, moisyure and fungus which are excellent compared with normal PVC wire

Construction



UL Style CUL Type	Conductor		Insulation Thickness	Overall Diameter Approx	Standard Put-Up	
	(AWG)	No/mm	(mm)	(mm)	(ft/coil)	(M/coil)
UL 1429	32	7/0.080	0.25	0.75	11500	3500
	30	7/0.102		0.81		
	28	7/0.127		0.90		
	26	7/0.160		1.00	10000	3050
	24	7/0.203		1.20	2000	610
	22	7/0.253		1.30		
	20	7/0.320		1.50		
	18	7/0.404		1.70		
	16	26/0.253		2.00		

XLPVC insulated / 105 °C / 300,600V

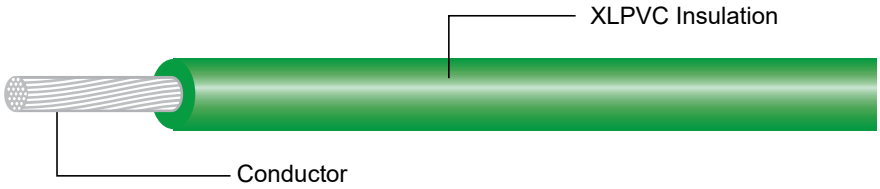
Application

Internal wiring of electrical, electronic and medical equipment and in appliances with the working high temperature

Product Description

Standard	UL, CUL Type REW
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	UL 1430 105 °C 300V
	UL 1431 105 °C 600V
Flammability	UL VW-1, CUL FT1
Insulation	Heat resistant XLPVC which is cross-linked by electron beam machine and stable thermally
Usage	Uniform thickness of wire to ensure easy stripping and cutting
	Resistant to acids, oils, alkalines, moisyure and fungus which are excellent compared with normal PVC wire

Construction



UL Style CUL Type	Conductor		Insulation Thickness	Overall Diameter Approx	Standard Put-Up		Conductor Resistance at 20 °C
	(AWG)	(No./mm)	(mm)	(mm)	(ft/coil)	(M/coil)	(ohm/km)
UL 1430 TYPE REW (Stranded)	30	7/0.102	0.39	1.10	11500	3050	381.00
	28	7/0.127		1.20	11500	3500	239.00
	26	7/0.160		1.30	10000	3500	150.00
	24	11/0.160		1.40	2000	610	94.20
	22	17/0.160		1.66	2000	610	59.40
	20	21/0.180		1.90	2000	610	36.70
	18	34/0.180		2.20	2000	610	23.20
	16	26/0.253		2.50	2000	610	14.60
UL 1431 TYPE REW (Stranded)	30	7/0.102	0.76	1.90	2000	610	381.00
	28	7/0.127		2.00	2000	610	239.00
	26	7/0.160		2.10	2000	610	150.00
	24	11/0.160		2.20	2000	610	94.20
	22	17/0.160		2.35	2000	610	59.40
	20	21/0.180		2.55	2000	610	36.70
	18	34/0.180		2.80	2000	610	23.20
	16	26/0.253		3.10	2000	610	14.60

PVC insulated / 105 °C 600V

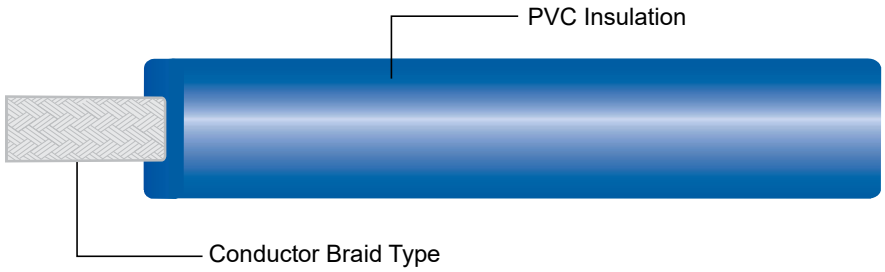
Application

Internal wiring of Appliance

Product Description

Standard	UL
Conductor	Either tinned or bare copper
Rating	105 °C 600V
Flammability	UL VW-1
Insulation	Heat resistant PVC which is RoHS Complied wire.
Usage	Uniform thickness of wire to ensure easy stripping and cutting Resistant to acids, oils, alkalines, moisyure and fungus

Construction



UL Style	Conductor		Width of Braid	Insulation Thickness	Overall Diameter Approx	Standard Put-Up	
	(AWG)	(No./mm)	(mm)	(mm)	(mm)	(ft/coil)	(M/coil)
UL 1500	20	48/0.12	2.0	0.78	1.80 x 3.60	2000	610
	19	64/0.12	3.0		1.90 x 4.60		
	18	80/0.12	3.7		1.90 x 5.40		
	17	96/0.12	4.3		1.90 x 6.10		
	16	128/0.12	5.0		1.90 x 6.90		
	15	144/0.12	5.5		1.90 x 7.20		
	14	192/0.12	6.0		1.90 x 7.60		
	13	144/0.16	6.6		2.00 x 8.30		
	12	144/0.18	7.0		2.00 x 8.60		
	11	192/0.18	7.8		2.00 x 9.50		

SR-PVC insulated / PVC Sheathed

Application

UL 1533

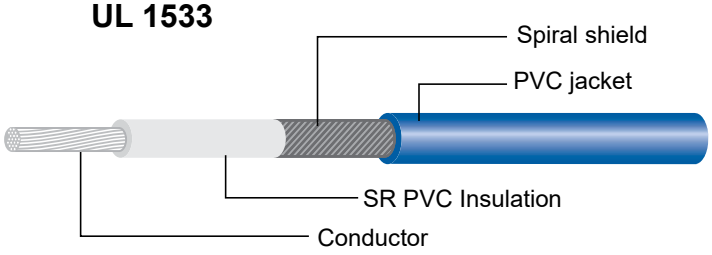
- Solid or stranded, tinned copper conductor, 30-16 AWG
- Tinned copper wire spiral shield.
- Insulation / Jacket : SR-PVC / PVC
- Rated temperature : 80° C.
- Voltage not specified.
- Pass UL VW-1& CUL FT1 flame test.
- Use of spiral shield allows for fast and simple termination.

UL 2547

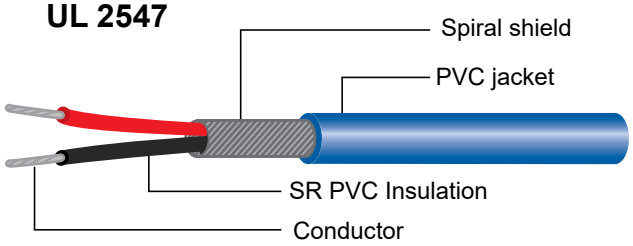
- Solid or stranded, tinned copper conductor.
- Insulation / Jacket : SR-PVC / PVC
- Tinned copper wire overall spiral shield.
- Rated temperature : 80° C.
- Voltage not specified.
- Pass UL VW-1& CUL FT1 flame test.
- Use of spiral shield allows for fast and simple termination.

Construction

UL 1533



UL 2547



UL Style CUL Type	Conductor		Insulation Thickness	Spiral Shield	Overall Diameter Approx	Standard Put-Up		Conductor Resistance at 20 °C
	(AWG)	(No./mm)	(mm)	(No./mm)	(mm)	(ft/coil)	(M/coil)	(ohm/km)
UI 1533 CUL AWM I A (1-core)	30	7/0.102	0.25	26/0.120	1.70	2000	610	381.00
	28	7/0.127		29/0.120	1.80	2000	610	239.00
	26	7/0.160		32/0.120	2.00	2000	610	150.00
	24	7/0.203		35/0.120	2.22	2000	610	94.20
	22	17/0.160		41/0.120	2.40	2000	610	59.40
	20	26/0.160		45/0.120	2.60	2000	610	36.70
UI 2547 (2-core)	30	7/0.102	0.25	36/0.120	2.70	2000	610	381.00
	28	7/0.127		40/0.120	2.70	2000	610	239.00
	26	7/0.160		45/0.120	3.00	2000	610	150.00
	24	7/0.203		50/0.120	3.20	2000	610	94.20
UI 2547 (3-core)	30	7/0.102	0.25	54/0.120	2.80	2000	610	381.00
	28	7/0.127		50/0.120	3.00	2000	610	239.00
	26	7/0.160		55/0.120	3.20	2000	610	150.00
	24	7/0.203		61/0.120	3.35	2000	610	94.20

Noted : This specification is reference only .Please contact to request an official specification from sales office.

SR PVC insulated / 80 °C 30V

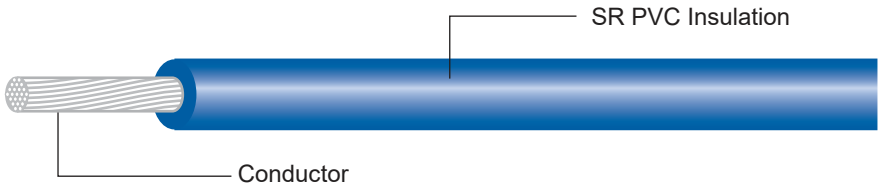
Application

Internal wiring of electrical, electronic and medical equipment.

Product Description

Standard	UL, CUL AWM I A
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	80 °C 30V
Flammability	UL VW-1, CUL FT1
Insulation	Heat resistant SR PVC which is RoHS Complied wire.
Usage	Uniform thickness of wire to ensure easy stripping and cutting Resistant to acids, oils, alkalines, moisyure and fungus

Construction



UL Style CUL Type	Conductor		Insulation Thickness	Overall Diameter Approx	Standard Put-Up		Conductor Resistance at 20 °C
	(AWG)	(No./mm)	(mm)	(mm)	(ft/coil)	(M/coil)	(ohm/km)
UL 1571 AWM I A (Stranded)	30	7/0.101	0.25	0.80	11480	3500	381.00
	28	7/0.127		0.90	11480	3500	239.00
	26	7/0.160		1.00	11480	3500	150.00
	24	7/0.203		1.10	2000	610	94.20
	22	7/0.253		1.30	2000	610	59.40
	20	7/0.320		1.50	2000	610	36.70
	18	7/0.404		1.70	2000	610	23.20

PVC insulated / PVC sheathed / 80,105 °C / 300,600V

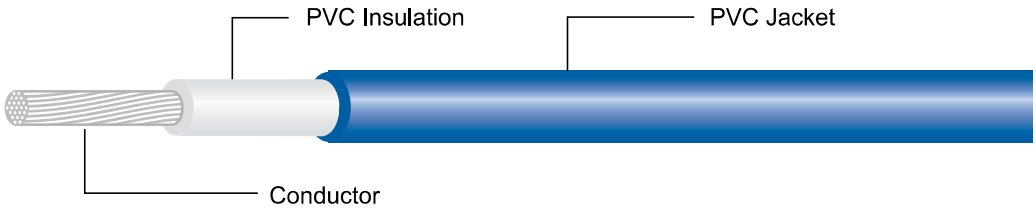
Application

Internal wiring of electrical, electronic and medical equipment.

Product Description

Standard	UL, CUL
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	UL 1617 105°C 600V
	UL 1618 80°C 300V
	UL 1672 105°C 300V
Flammability	UL VW-1, CUL FT1
Insulation	Heat resistant PVC which is RoHS Complied wire.
Usage	Uniform thickness of wire to ensure easy stripping and cutting
	Resistant to acids, oils, alkalines, moisyure and fungus

Construction



UL Style CUL Type	Conductor		Insulation Thickness	Jacket Thickness	Overall Diameter Approx	Standard Put-Up		Conductor Resistance at 20 °C
	(AWG)	(No./mm)	(mm)	(mm)	(mm)	(ft/coil)	(M/coil)	(ohm/km)
UL 1617 AWM I / II A (Stranded)	25	7/0.160	0.76	0.25	2.60	2000	610	150.00
	24	11/0.160			2.70	2000	610	94.20
	22	17/0.160			2.90	2000	610	59.40
	20	21/0.180		0.40	3.40	2000	610	36.70
	18	34/0.180			3.60	2000	610	23.20
	16	26/0.253			3.90	2000	610	14.60
	14	41/0.253			4.30	2000	610	8.96
	12	65/0.253			4.80	2000	610	5.64
	10	105/0.253			5.80	2000	610	3.54
UL 1618 AWM I A (Stranded)	26	7/0.160	0.38	0.40	2.10	2000	610	150.00
	24	11/0.160			2.30	2000	610	94.20
	22	17/0.160			2.40	2000	610	59.40
	20	21/0.180			2.60	2000	610	36.70
	18	34/0.180			2.90	2000	610	23.20
	16	26/0.253			3.20	2000	610	14.60
	14	41/0.253			3.50	2000	610	8.96
	12	65/0.253			4.00	2000	610	5.64
	10	105/0.253			5.10	2000	610	3.54
UL 1672 AWM I / II A	24	11/0.160	0.38	0.40	2.30	2000	610	94.20
	22	17/0.160			2.40	2000	610	59.40
	20	21.0.180			2.60	2000	610	36.70
	18	24/0.180			2.90	2000	610	23.20

FRPE insulated / Sheathed

Application

• Internal wiring of audio video equipments.

Product Description

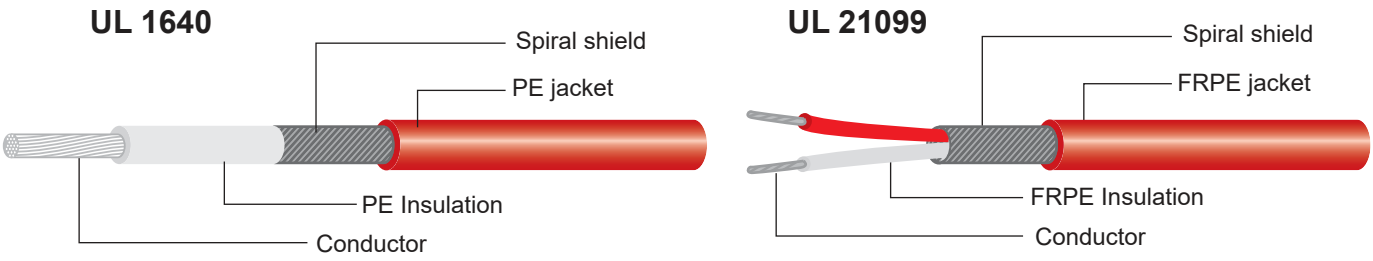
UL 1640

• Solid or stranded, tinned copper conductor,
• Tinned copper wire spiral shield.
• Insuiation / Jacket : UL 1640 : PE (HF) / PE (HF)
• Use of spiral shield allows for fast and simple termination.
• Rated temperature : 80° C. Rated voitage : 30 volts.
• Pass UL VW-1 flame test.
• Minimum insulation resistance: 1,000 M Ohm/km at 20° C.

UL 21099

• Stranded, solid, tinned copper conductor.
• Tinned copper wire overall spiral shield.
• Insuiation / Jacket : UL 21099 : FRPE (HF) / FRPE (HF)
• Rated temperature : 80° C. Rated voitage : 30 volts.
• Pass UL VW-1 flame test.
• Minimum insulation resistance: 1,000 M Ohm/km at 20° C.
• Insulation material of these wires doesn't use any PBDEs or PBBs as flome retardants at all.

Construction



UL Style	Conductor			Insulation		Spiral Shield		Jacket Thick-ness	Overall Diameter Approx	Max. Cond. Resis.	Standard Oapacit-ance	Standard Put-Up		Conductor Resistance at 20 °C)
	(AWG)	(No./mm)	Outer Dia	Thick-ness	Outer Dia	(No./mm)	Outer Dia							
			(mm)	(mm)	(mm)		(mm)	(mm)	(mm)	(Ohm/Km)	(Pf/m)	(ft/coil)	(M/coil)	(Ohm/Km)
UL 1640 (1-core)	30	7/0.102	0.306	0.25	0.80	26/0.120	1.00	0.25	1.50	410	105	2000	610	381.00
	28	7/0.127	0.381		0.90	30/0.120	1.10	0.30	1.65	236	126	2000	610	239.00
	26	7/0.160	0.480		1.00	32/0.120	1.20	0.35	2.00	148	130	2000	610	150.00
	24	7/0.203	0.613		1.10	35/0.120	1.30	0.40	2.20	151	115	2000	610	94.20
UL 21099 (2-core)	30	7/0.102	0.306	0.25	0.80	36/0.120	1.80	0.30	2.40	393	100	2000	610	381.00
	28	7/0.127	0.381		0.90	40/0.120	2.00	0.30	2.50	249	119	2000	610	239.00
	26	7/0.160	0.480		1.00	45/0.120	2.20	0.35	2.90	152	110	2000	610	150.00
	24	7/0.203	0.613		1.10	50/0.120	2.40	0.35	3.20	93	110	2000	610	94.20
UL 21099 (3-core)	30	7/0.102	0.306	0.25	0.80	(-)	1.90	0.30	2.60	393	115	2000	610	381.00
	28	7/0.127	0.381		0.90	(-)	2.10	0.30	3.00	249	126	2000	610	239.00
	26	7/0.160	0.480		1.00	(-)	2.30	0.35	3.10	152	110	2000	610	150.00
	24	7/0.203	0.609		1.10	(-)	2.60	0.35	3.40	93	120	2000	610	94.20

Noted : This specification is reference only .Please contact to request an official specification from sales office.

FRPE insulated / PVC Sheathed

Application

• Internal wiring of audio video equipments.

Product Description

UL 1691

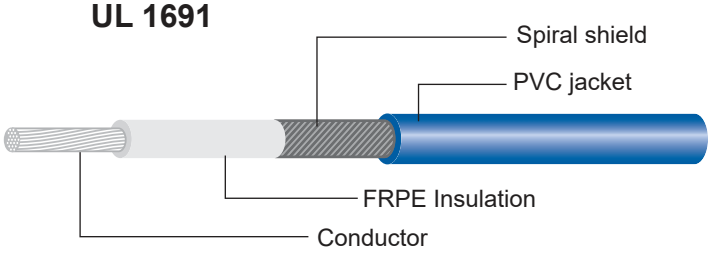
• Solid or stranded, tinned copper conductor,
• Tinned copper wire spiral shield.
• Insuiation / Jacket : UL 1691 : FRPE (LF) / PVC (LF)
• Use of spiral shield allows for fast and simple termination.
• Rated temperature : 80° C. Rated voitage : 30 volts.
• Pass UL VW-1 flame test.
• Minimum insulation resistance: 1,000 M Ohm/km at 20° C.

UL 2791

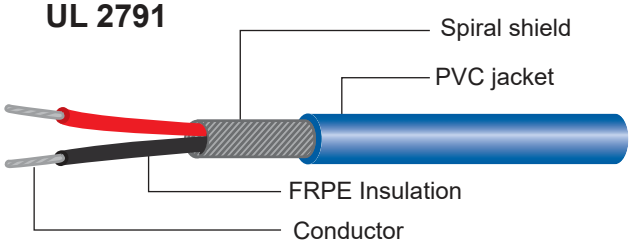
• Stranded, solid, tinned copper conductor.
• Tinned copper wire overall spiral shield.
• Insuiation / Jacket : UL 2791 : FRPE (LF) / PVC (LF)
• Rated temperature : 80° C. Rated voitage : 30 volts.
• Pass UL VW-1 & CUL FT1 flame test.
• Minimum insulation resistance: 1,000 M Ohm/km at 20° C.
• Insulation material of these wires doesn't use any
• PBDEs or PBBs as flome retardants at all.
• E77881

Construction

UL 1691



UL 2791



UL Style	Conductor			Insulation		Spiral Shield		Jacket Thick-ness	Overall Diameter Approx	Max. Cond. Resis.	Standard Oapacit-ance	Standard Put-Up		Conductor Resistance at 20 °C)
	(AWG)	(No./mm)	Outer Dia	Thick-ness	Outer Dia	(No./mm)	Outer Dia							
			(mm)	(mm)	(mm)		(mm)	(mm)	(mm)	(Ohm/Km)	(Pf/m)	(ft/coil)	(M/coil)	(Ohm/Km)
UL 1691 (1-core)	30	7/0.102	0.306	0.25	0.80	26/0.120	1.00	0.25	1.50	410	105	2000	610	381.00
	28	7/0.127	0.381		0.90	30/0.120	1.10	0.30	1.65	236	126	2000	610	239.00
	26	7/0.160	0.480		1.00	32/0.120	1.20	0.35	2.00	148	130	2000	610	150.00
	24	7/0.203	0.613		1.10	35/0.120	1.30	0.40	2.20	151	115	2000	610	94.20
UL 2791 (2-core)	30	7/0.102	0.306	0.25	0.80	36/0.120	1.80	0.30	2.40	393	100	2000	610	381.00
	28	7/0.127	0.381		0.90	40/0.120	2.00	0.30	2.50	249	119	2000	610	239.00
	26	7/0.160	0.480		1.00	45/0.120	2.20	0.35	2.90	152	110	2000	610	150.00
	24	7/0.203	0.613		1.10	50/0.120	2.40	0.35	3.20	93	110	2000	610	94.20
UL 2791 (3-core)	30	7/0.102	0.306	0.25	0.80	(-)	1.90	0.30	2.60	393	115	2000	610	381.00
	28	7/0.127	0.381		0.90	(-)	2.10	0.30	3.00	249	126	2000	610	239.00
	26	7/0.160	0.480		1.00	(-)	2.30	0.35	3.10	152	110	2000	610	150.00
	24	7/0.203	0.609		1.10	(-)	2.60	0.35	3.40	93	120	2000	610	94.20

Noted : This specification is reference only .Please contact to request an official specification from sales office.

PVC insulated / 80 °C 30V

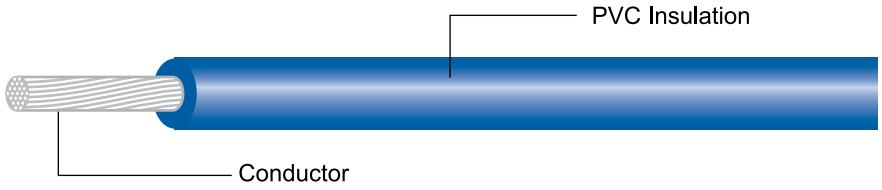
Application

Internal wiring of electrical, electronic and medical equipment.

Product Description

Standard	UL, CUL AWMTR-64
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	80 °C 30V
Flammability	UL VW-1, CUL FT1
Insulation	Heat resistant PVC which is RoHS Complied wire.
Usage	Uniform thickness of wire to ensure easy stripping and cutting Resistant to acids, oils, alkalines, moisyure and fungus

Construction



UL Style CUL Type	Conductor		Insulation Thickness	Overall Diameter Approx	Covering	Standard Put-Up	
	(AWG)	No/mm	(mm)	(mm)		(ft/coil)	(M/coil)
UL 1792	32	7/0.080	0.25	0.75	Optional	11500	3500
	30	7/0.102		0.82			
	28	7/0.127		0.90			
	26	7/0.160		1.00		10000	3050
	24	7/0.203		1.20		2000	610
	22	7/0.253		1.30			
	20	7/0.320		1.50			
	18	7/0.404		1.80			
	16	26/0.253		2.00			

PVC insulated / PVC sheathed / 80 °C 300V

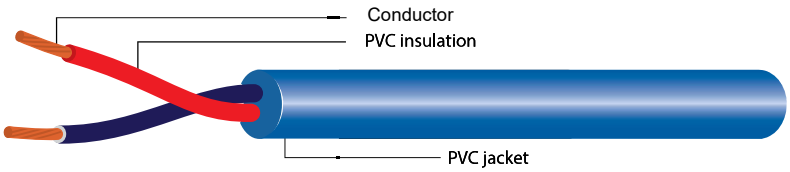
Application

Internal wiring of electronic equipment and appliances. Tags may indicate the following:
600 volts Peak for Electronic use only

Product Description

Standard	UL, CUL
Conductor	Solid , Strand both bare copper and tinned coated copper
Rating	80°C 300V
Assembly	Consists of two or more conductors, twisted pairs or groups of twisted conductors twisted together.
Style	Multiple-conductor cable using non-integral jacket

Construction



UL Style CUL Type	Conductor		Strand OD (Approx)	Insulation Thickness	Number of Core	Covering	Shield	Inner Core Diameter Approx	Jacket thickness	Over All Diameter Approx	Standard Put-Up	
	(AWG)	No/mm	(mm)	(mm)				(mm)	(mm)	(mm)	(ft/coil)	(M/coil)
UL 2095	32	7/0.080	0.2	0.38	2	Optional	Optional	2.0	0.40	2.9	2000	610
	30	7/0.102	0.3					2.1		3.0		
	28	7/0.127	0.4					2.3		3.2		
	26	7/0.160	0.5					2.5		3.4		
	24	7/0.203	0.6					2.8		3.6		
	22	7/0.253	0.8					3.1		3.9		
	20	7/0.320	1.0					3.5		4.4		
	18	7/0.404	1.2					4.0		4.9		
	16	26/0.253	1.5					4.5		5.4		

More 2 Core : Contact sales office

PVC insulated / 80 °C 300V

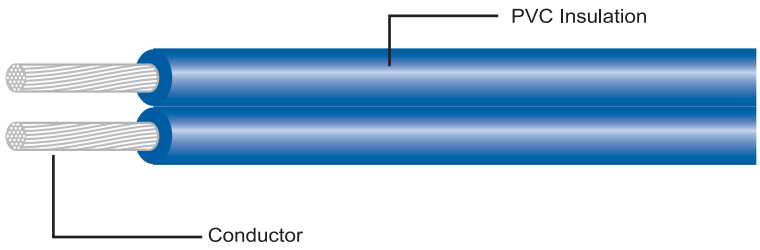
Application

For use in internal wiring of appliances, computers.

Product Description

Standard	UL, CUL AWM T1 IA
Conductor	Solid, Strand and OS-1 tinned copper
Rating	80°C 300V
Flammability	UL VW-1, CUL FT1
Insulation	Lead free heat resistant PVC
Usage	Uniform thickness of wire to ensure easy stripping and cutting Resistant to acids, oils, alkalines, moisyure and fungus

Construction



UL Style CUL Type	Conductor		Core	Insulation Thickness	Overall Diameter Approx	Standard Put-Up
	(AWG)	(No./mm)	No.	(mm)	(mm)	(M/coil)
UL 2468 AWM T1 IA	26	1/1.290	2	0.45	1.40 x 2.90	610 (2000 ft)
		7/0.160			1.40 x 3.40	
		7/0.160			1.40 x 3.90	
	24	11/0.160			1.50 x 3.10	
		7/0.203			1.50 x 4.00	
	22	17/0.160			1.60 x 3.20	
	18	7/0.404			2.15 x 4.30	
		41/0.160			2.10 x 4.20	

PVC insulated / PVC sheathed / 80 °C 30V

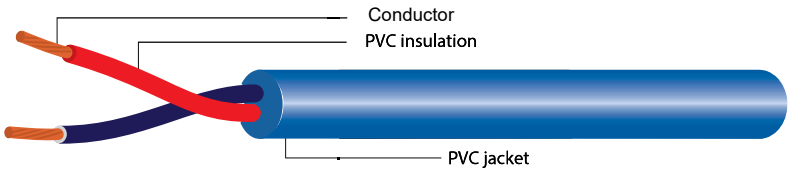
Application

UL 2919 Internal wiring or external interconnection in Class 2 Circuits of electronic computers and electric business machine
UL 2990 Internal Wiring or External Interconnection of Electronic Equipment, class 2 circuits only.

Product Description

Standard	UL, CUL
Conductor	Solid , Strand both bare copper and tinned coated copper
Rating	80°C 30V
Assembly	Twisted pairs or groups of twisted conductors twisted together

Construction



UL Style CUL Type	Conductor		Insulation Thickness	Number of Cores	Covering	Shield	Inner Core Diameter Approx	Jacket thickness (Minimum Average)	Over All Diameter Approx
	(AWG)	No/mm	(mm)				(mm)	(mm)	(mm)
UL 2919	32	7/0.080	0.30	2	Optional	Optional	1.70	0.76	3.37
	30	7/0.102					1.90		3.50
	28	7/0.127					2.00		3.70
	26	7/0.160					2.20		3.80
	24	7/0.203					2.50		4.20
	22	7/0.253					2.80		4.40
	20	7/0.320					3.20		4.90
	18	7/0.404					3.70		5.40
	16	26/0.253					4.20		5.90
UL 2990	32	7/0.080	0.30	2	Optional	Optional	1.69	0.76	3.37
	30	7/0.102					1.90		3.50
	28	7/0.127					2.00		3.70
	26	7/0.160					2.20		3.80
	24	7/0.203					2.50		4.20
	22	7/0.253					2.80		4.40
	20	7/0.320					3.20		4.90
	18	7/0.404					3.70		5.40
	16	26/0.253					4.20		5.90

XLPE insulated / 125 °C 600V

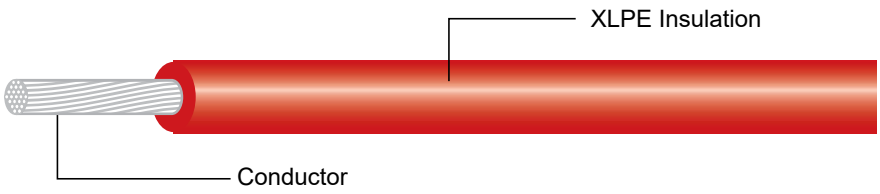
Application

Internal wiring of electrical, electronic and medical equipment and in appliances with the working high temperature

Product Description

Standard	UL, CUL CL1251
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	125 °C 600V
Flammability	UL VW-1, CUL FT1
Insulation	Heat resistant XLPE which is cross-linked by electron beam machine and stable thermally
Usage	Uniform thickness of wire to ensure easy stripping and cutting
	Resistant to acids, oils, alkalines, moisyure and fungus which are excellent compared with normal PVC wire

Construction



UL Style CUL Type	Conductor		Insulation Thickness	Overall Diameter Approx	Standard Put-Up		Conductor Resistance at 20 °C
	(AWG)	(No./mm)	(mm)	(mm)	(ft/coil)	(M/coil)	(ohm/km)
UL 3173 CL 1251 (Stranded)	26	7/0.160	0.76	2.00	10000	3050	150.00
	24	11/0.160		2.13	2000	610	94.20
	22	17/0.160		2.28	2000	610	59.40
	20	21/0.180		2.47	2000	610	36.70
	18	34/0.180		2.73	2000	610	23.20
	16	26/0.253		3.01	2000	610	14.60
	14	41/0.253		3.39	1000	305	8.96
	12	65/0.253		3.88	1000	305	5.64
	10	105/0.253		4.92	1000	305	3.54
UL 3173 CL 1251 (OS-1)	26	7/0.160		2.00	2000	610	150.00
	24	7/0.203		2.13	2000	610	94.20
	22	7/0.253		2.28	2000	610	59.40
	20	7/0.320		2.48	2000	610	36.70
	18	7/0.404		2.73	2000	610	23.20
	16	7/0.488		2.98	2000	610	14.60
UL 3173 CL 1251 (Solid)	26	1/0.404		1.92	2000	610	143.00
	24	1/0.511		2.03	2000	610	89.30
	22	1/0.643		2.16	2000	610	56.40
	20	1/0.813		2.33	2000	610	35.20
	18	1/1.024		2.54	2000	610	22.20
	16	1/0.290		2.81	2000	610	14.00

Silicone rubber insulated / 150°C 5kV

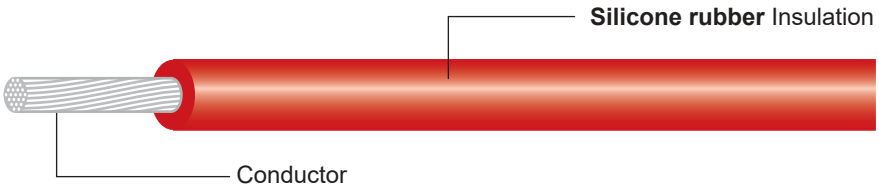
Application

Internal wiring of electrical, electronic and medical equipment and in appliances with the working high temperature

Product Description

Standard	UL
Conductor	Solid , Strand and OS-1 either tinned or bare copper , tinned copper , silver or nikel coated copper
Rating	150°C 5kV UL VW-1
Flammability	Heat resistant silicone rubber which is RoHS Complied wire.
Insulation	Uniform thickness of wire to ensure easy stripping and cutting
Usage	High voltage DC wire with Silicone insulation

Construction



UL Style CUL Type	Conductor		Insulation Thickness (Minimum Average)	Over All Diameter Approx	Standard Put-Up	
	(AWG)	No/mm	(mm)	(mm)	(ft/coil)	(M/coil)
UL 3239	24	7/0.203	0.70	2.20	2000	610
	22	7/0.253		2.40		
	20	7/0.320		2.60		
	18	7/0.404		2.80		
	16	26/0.253		3.10		
	14	41/0.253		3.50	1000	305
	12	65/0.253		3.90		
	10	105/0.255		4.90		

XLPE insulated / 125 °C / 150,300V

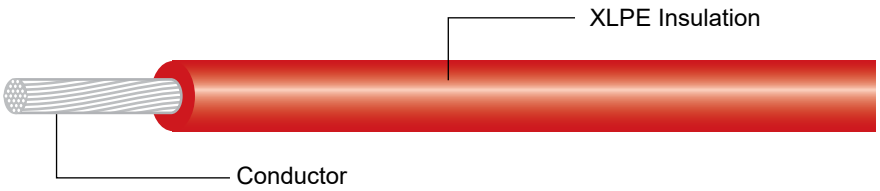
Application

Internal wiring of electrical, electronic and medical equipment and in appliances with the working high temperature

Product Description

Standard	UL, CUL
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	UL 3265 125 °C 150V
	UL 3266 125 °C 300V
Flammability	UL VW-1, CUL FT1
Insulation	Heat resistant XLPE which is cross-linked by electron beam machine and stable thermally
Usage	Uniform thickness of wire to ensure easy stripping and cutting
	Resistant to acids, oils, alkalines, moisyure and fungus which are excellent compared with normal PVC wire

Construction



UL Style CUL Type	Conductor		Insulation Thickness (Average Minimum)	Over All Diameter Approx	Standard Put-Up	
	(AWG)	No/mm	(mm)	(mm)	(ft/coil)	(M/coil)
UL 3265	32	7/0.080	0.25	0.82	11500	3500
	30	7/0.102		0.89		
	28	7/0.127		0.96		
	26	7/0.160		1.06	10000	3050
	24	7/0.203		1.20	2000	6100
	22	7/0.253		1.35		
	20	7/0.320		1.55		
	18	7/0.404		1.81		
	16	26/0.253		2.07		
UL 3266	30	7/0.102	0.38	1.10	11500	3500
	28	7/0.127		1.15		
	26	7/.0160		1.20	10000	3050
	24	11/0.160		1.40	2000	610
	22	17/0.160		1.55		
	20	21/0.160		1.75		
	18	34/0.180		2.10		
	16	26/0.230		2.30		

XLPE insulated / 125 °C 600V

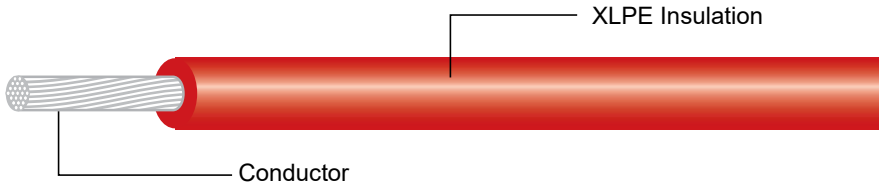
Application

Internal wiring of electrical, electronic and medical equipment and in appliances with the working high temperature

Product Description

Standard	UL, CUL CL 1251
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	125 °C 600V
Flammability	UL VW-1, CUL FT1
Insulation	Heat resistant XLPE which is cross-linked by electron beam machine and stable thermally
Usage	Uniform thickness of wire to ensure easy stripping and cutting
	Resistant to acids, oils, alkalines, moisyure and fungus which are excellent compared with normal PVC wire

Construction



UL Style CUL Type	Conductor		Insulation Thickness	Overall Diameter Approx	Standard Put-Up		Conductor Resistance at 20 °C
	(AWG)	(No./mm)	(mm)	(mm)	(ft/coil)	(M/coil)	(ohm/km)
UL 3271 CL 1251 (Stranded)	30	7/0.102	0.76	1.83	11500	3500	381.00
	28	7/0.127		1.90	11500	3500	239.00
	26	7/0.160		2.00	10000	3050	150.00
	24	11/0.160		2.13	2000	610	94.20
	22	17/0.160		2.29	2000	610	59.40
	20	21/0.180		2.47	2000	610	36.70
	18	34/0.180		2.73	2000	610	23.20
	16	26/0.253		3.01	2000	610	14.60
	14	41/0.253		3.43	1000	305	8.96
	12	65/0.253		3.92	1000	305	5.64
	10	105/0.253		5.19	1000	305	3.54
UL 3271 CL 1251 (OS-1)	26	7/0.160		2.00	2000	610	150.00
	24	7/0.203		2.13	2000	610	94.20
	22	7/0.253		2.80	2000	610	59.40
	20	7/0.320		2.48	2000	610	36.70
	18	7/0.404		2.73	2000	610	23.20
	16	7/0.488		2.98	2000	610	14.60
UL 3271 CL 1251 (Solid)	26	1/0.404		1.92	2000	610	143.00
	24	1/0.551		2.03	2000	610	89.30
	22	1/0.643		2.16	2000	610	56.40
	20	1/0.813		2.33	2000	610	35.20
	18	1/1.024		2.54	2000	610	22.20
	16	1/1.290		2.81	2000	610	14.00

XLPE insulated / 150 °C / 300,600V

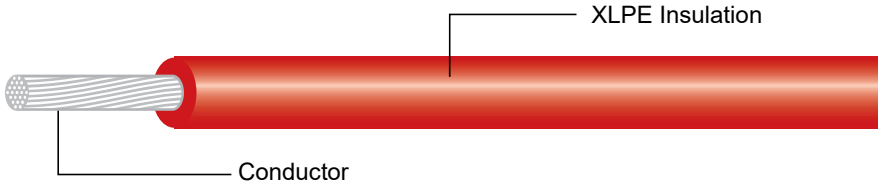
Application

Internal wiring of electrical, electronic and medical equipment and in appliances with the working high temperature

Product Description

Standard	UL, CUL
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	UL 3289 150 °C 600V
	UL 3389 150 °C 300V
Flammability	UL VW-1, CUL FT1
Insulation	Heat resistant XLPE which is cross-linked by electron beam machine and stable thermally
Usage	Uniform thickness of wire to ensure easy stripping and cutting
	Resistant to acids, oils, alkalines, moisyure and fungus which are excellent compared with normal PVC wire

Construction



UL Style CUL Type	Conductor		Insulation Thickness	Overall Diameter Approx	Standard Put-Up		Conductor Resistance at 20 °C
	(AWG)	(No./mm)	(mm)	(mm)	(ft/coil)	(M/coil)	(ohm/km)
UL 3398 AWM I A/B (Stranded)	30	7/0.102	0.38	1.07	11500	3500	381.00
	28	7/0.127		1.15	11500	3500	239.00
	26	7/0.160		1.25	10000	3050	150.00
	24	11/0.160		1.37	2000	610	94.20
	22	17/0.160		1.52	2000	610	59.40
	20	21/0.180		1.71	2000	610	36.70
	18	34/0.180		1.97	2000	610	23.20
	16	26/0.253		2.25	2000	610	14.60
UL 3398 AWM I A/B (Solid)	26	1/0.404		1.23	2000	610	143.00
	24	1/0.511		1.35	2000	610	89.30
	22	1/0.643		1.50	2000	610	56.40
	20	1/0.813		1.70	2000	610	35.20
	18	1/1.024		1.94	2000	610	22.20
	16	1/1.290		2.25	2000	610	14.00
UL 3289 CL 1251 (Stranded)	30	7/0.102	0.76	1.83	11500	3500	381.00
	28	7/0.127		1.91	11500	3500	239.00
	26	7/0.160		2.01	10000	3050	150.00
	24	11/0.160		2.13	2000	610	94.20
	22	17/0.160		2.28	2000	610	59.40
	20	21/0.180		2.47	2000	610	36.70
	18	34/0.180		2.73	2000	610	23.20
	16	26/0.253		3.01	2000	610	14.60
UL 3289 CL 1251 (Solid)	26	1/0.404		1.99	2000	610	143.00
	24	1/0.511		2.11	2000	610	89.30
	22	1/0.643		2.26	2000	610	56.40
	20	1/0.813		2.46	2000	610	35.20
	18	1/1.024		2.70	2000	610	22.20
	16	1/1.290		3.01	2000	610	14.00

Noted : This specification is reference only .Please contact to request an official specification from sales office.

XLPE insulated / 105 °C 30V

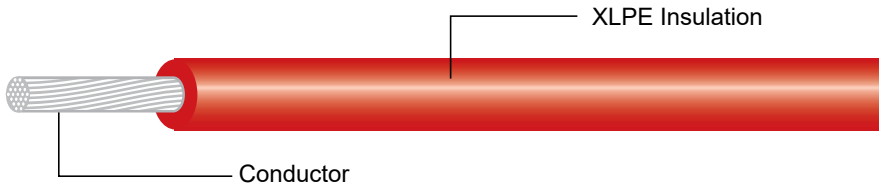
Application

Internal wiring of electrical, electronic and medical equipment and in appliances with the working high temperature

Product Description

Standard	UL, CUL, AWM I A
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	105 °C 30V
Flammability	UL VW-1, CUL FT1
Insulation	Heat resistant XLPE which is cross-linked by electron beam machine and stable thermally
Usage	Uniform thickness of wire to ensure easy stripping and cutting
	Resistant to acids, oils, alkalines, moisyure and fungus which are excellent compared with normal PVC wire

Construction



UL Style CUL Type	Conductor		Insulation Thickness	Overall Diameter Approx	Standard Put-Up		Conductor Resistance at 20 °C
	(AWG)	(No./mm)	(mm)	(mm)	(ft/coil)	(M/coil)	(ohm/km)
UL 3302 AWM I A (Stranded)	32	7/0.080	0.15	0.54	11500	3500	563.00
	30	7/0.102		0.61	11500	3500	381.00
	28	7/0.127		0.68	11500	3500	239.00
	26	7/0.160		0.78	10000	3050	150.00
	24	11/0.160		0.91	2000	610	94.20
	22	17/0.160		1.06	2000	610	59.40
	20	21/0.180	0.20	1.35	2000	610	36.70
	18	34/0.180	0.25	1.71	2000	610	23.20
	16	26/0.253		1.99	2000	610	14.60
UL 3302 AWM I A (OS-1)	26	7/0.160	0.15	0.78	2000	610	150.00
	24	7/0.203		0.91	2000	610	94.20
	22	7/0.253		1.06	2000	610	59.40
	20	7/0.320	0.20	1.36	2000	610	36.70
	18	7/0.404	0.25	1.71	2000	610	23.20
	16	7/0.488		1.96	2000	610	14.60
UL 3302 AWM I A (Solid)	26	1/0.404	0.15	0.70	2000	610	143.00
	24	1/0.511		0.81	2000	610	89.30
	22	1/0.643		0.94	2000	610	56.40
	20	1/0.813	0.20	1.21	2000	610	35.20
	18	1/1.024	0.25	1.52	2000	610	22.20
	16	1/1.290		1.79	2000	610	14.00

XLPVC insulated / 105 °C 300V

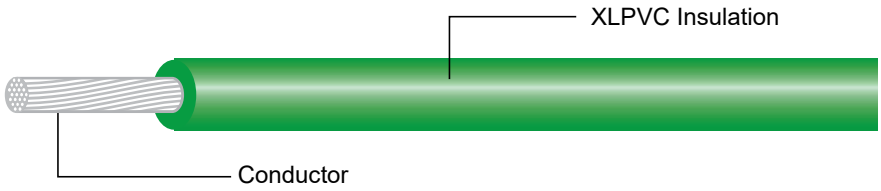
Application

Internal wiring of electrical, electronic and medical equipment and in appliances with the working high temperature

Product Description

Standard	UL, CUL, Type REW
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	105 °C 300V
Flammability	UL VW-1, CUL FT1
Insulation	Heat resistant XLPVC which is cross-linked by electron beam machine and stable thermally
Usage	Uniform thickness of wire to ensure easy stripping and cutting
	Resistant to acids, oils, alkalines, moisyure and fungus which are excellent compared with normal PVC wire

Construction



UL Style CUL Type	Conductor		Insulation Thickness	Overall Diameter Approx	Standard Put-Up		Conductor Resistance at 20 °C
	(AWG)	(No./mm)	(mm)	(mm)	(ft/coil)	(M/coil)	(ohm/km)
UL 3317 Type REW (Stranded)	14	41/0.253	0.39	2.11	1000	305	8.96
	12	65/0.253		2.46	305	100	5.64
	10	105/0.253		4.18	305	100	3.54

XLPE insulated / 90,150 °C / 600V

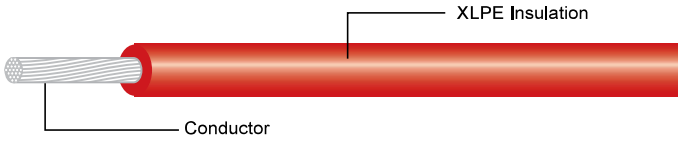
Application

Internal wiring of electrical, electronic and medical equipment and in appliances with the working high temperature

Product Description

Standard	UL, CUL AWM I A/B
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	UL 3320 90°C 600V
	UL 3321 150°C 600Vac / 750Vdc
Flammability	UL VW-1, CUL FT1
Insulation	Heat resistant XLPE which is cross-linked by electron beam machine and stable thermally
Usage	Uniform thickness of wire to ensure easy stripping and cutting
	Resistant to acids, oils, alkalines, moisyure and fungus which are excellent compared with normal PVC wire

Construction



UL Style CUL Type	Conductor		Insulation Thickness (Minimum Average)	Overall Diameter Approx	Standard Put-Up	
	(AWG)	No/mm	(mm)	(mm)	(ft/coil)	(M/coil)
UL 3320	30	7/0.102	0.76	1.98	2000	610
	28	7/0.127		2.10		
	26	7/0.160		2.20		
	24	7/0.203		2.30		
	22	7/0.253		2.50		
	20	7/0.320		2.65		
	18	7/0.404		2.90		
	16	26/0.253		3.20		
	14	41/0.253		3.40	1000	305
	12	65/0.253		4.00		
	10	105/0.255		5.00		
	8	165/0.253	1.14	6.60	305	100
	6	266/0.253	1.52	8.50		
	4	420/0.253		9.90		
	2	665/0.254		11.70		
UL 3321	30	7/0.102	0.76	1.98	2000	610
	28	7/0.127		2.10		
	26	7/0.160		2.20		
	24	7/0.203		2.30		
	22	7/0.253		2.50		
	20	7/0.320		2.65		
	18	7/0.404		2.90		
	16	26/0.253		3.20		
	14	41/0.253		3.40	1000	305
	12	65/0.253		4.00		
	10	105/0.253		5.00		
	8	165/0.253	1.14	6.60	305	100
	6	266/0.253		7.80		
	4	420/0.253		9.20		
	2	665/0.254	1.52	11.70		

Remark: UL 3321 conductor size 30 AWG - 4/0 AWG,

XLPE insulated/XLPE Sheathed / 125 °C / 300, 600V

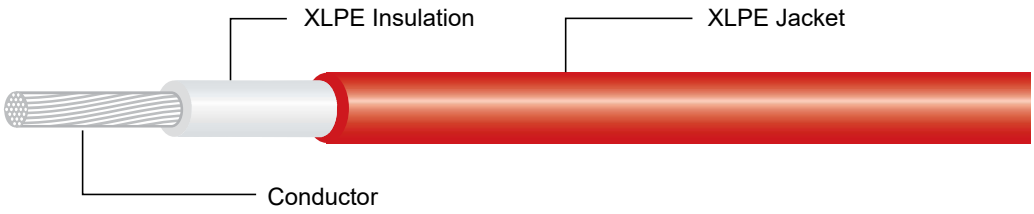
Application

Internal wiring of electrical, electronic and medical equipment and in appliances with the working high temperature

Product Description

Standard	UL, CUL
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	UL 3363 125 °C 300V
	UL 3364 125 °C 600V
Flammability	UL VW-1, CUL FT1
Insulation	Heat resistant XLPE which is cross-linked by electron beam machine and stable thermally
Usage	Uniform thickness of wire to ensure easy stripping and cutting
	Resistant to acids, oils, alkalines, moisyure and fungus which are excellent compared with normal PVC wire

Construction



UL Style CUL Type	Conductor		Insulation Thickness	Jacket Thickness	Overall Diameter Approx	Standard Put-Up		Conductor Resistance at 20 °C
	(AWG)	(No./mm)	(mm)	(mm)	(mm)	(ft/coil)	(M/coil)	(ohm/km)
UL 3364 (Stranded)	26	7/0.160	0.76	0.25	2.60	2000	610	150.00
	24	11/0.160			2.70	2000	610	94.20
	22	17/0.160			2.90	2000	610	59.40
	20	21/0.180		0.40	3.40	2000	610	36.70
	18	34/0.180			3.60	2000	610	23.20
	16	26/0.253			3.90	2000	610	14.60
	14	41/0.253			4.30	2000	610	8.96
	12	65/0.253			4.80	2000	610	5.64
	10	105/0.253			5.80	2000	610	3.54
UL 3363 (Stranded)	24	11/0.160	0.38	0.40	2.30	2000	610	94.20
	22	17/0.160			2.40	2000	610	59.40
	20	21/0.180			2.60	2000	610	36.70
	18	24/0.180			2.90	2000	610	23.20

Noted : This specification is reference only .Please contact to request an official specification from sales office.

XLPE insulated / 105 °C 300V

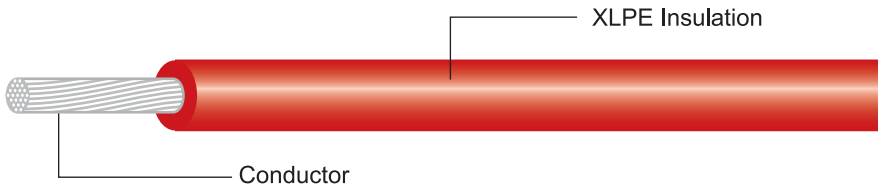
Application

Internal wiring of electrical, electronic and medical equipment and in appliances with the working high temperature

Product Description

Standard	UL, CUL AWM I A
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	105 °C 300V
Flammability	UL VW-1, CUL FT1
Insulation	Heat resistant XLPE which is cross-linked by electron beam machine and stable thermally
Usage	Uniform thickness of wire to ensure easy stripping and cutting
	Resistant to acids, oils, alkalines, moisyure and fungus which are excellent compared with normal PVC wire

Construction



UL Style CUL Type	Conductor		Insulation Thickness	Overall Diameter Approx	Standard Put-Up		Conductor Resistance at 20 °C
	(AWG)	(No./mm)	(mm)	(mm)	(ft/coil)	(M/coil)	(ohm/km)
UL 3385 AWM I A (Stranded)	30	7/0.102	0.38	1.10	11500	3500	381.00
	28	7/0.127		1.20	11500	3500	239.00
	26	7/0.160		1.30	10000	3050	150.00
	24	11/0.160		1.40	2000	610	94.20
	22	17/0.160		1.30	2000	610	59.40
	20	21/0.180		1.80	2000	610	36.70
	18	34/0.180		2.10	2000	610	23.20
	16	26/0.253		2.40	2000	610	14.60
UL 3385 AWM I A (OS-1)	26	7/0.160		1.30	2000	610	150.00
	24	7/0.203		1.45	2000	610	94.20
	22	7/0.253		1.60	2000	610	59.40
	20	7/0.320		1.80	2000	610	36.70
	18	7/0.404		2.10	2000	610	23.20
	16	7/0.488		2.30	2000	610	14.60
UL 3385 AWM I A (Solid)	26	1/0.404		1.25	2000	610	143.00
	24	1/0.511		1.35	2000	610	89.30
	22	1/0.643		1.50	2000	610	56.40
	20	1/0.813		1.65	2000	610	35.20
	18	1/1.024		1.85	2000	610	22.20
	16	1/1.290		2.15	2000	610	14.00

XLPE insulated / 105 °C 600V

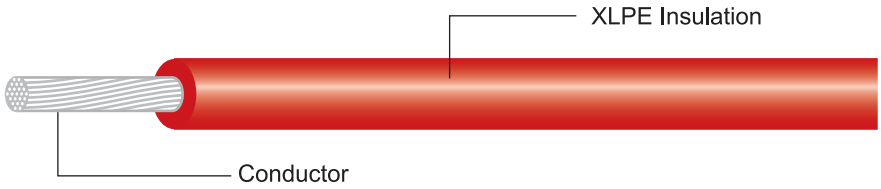
Application

Internal wiring of electrical, electronic and medical equipment and in appliances with the working high temperature

Product Description

Standard	UL, CUL AWM I A
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	105 °C 600V
Flammability	UL VW-1, CUL FT1
Insulation	Heat resistant XLPE which is cross-linked by electron beam machine and stable thermally
Usage	Uniform thickness of wire to ensure easy stripping and cutting
	Resistant to acids, oils, alkalines, moisyure and fungus which are excellent compared with normal PVC wire

Construction



UL Style CUL Type	Conductor		Insulation Thickness	Overall Diameter Approx	Standard Put-Up		Conductor Resistance at 20 °C
	(AWG)	(No./mm)	(mm)	(mm)	(ft/coil)	(M/coil)	(ohm/km)
UL 3386 AWM I A (Stranded)	30	7/0.102	0.76	1.85	2000	610	381.00
	28	7/0.127		1.90	2000	610	239.00
	26	7/0.160		2.05	2000	610	150.00
	24	11/0.160		2.20	2000	610	94.20
	22	17/0.160		2.40	2000	610	59.40
	20	210.180		2.55	2000	610	36.70
	18	34/0.180		2.80	2000	610	23.20
	16	26/0.253		3.10	2000	610	14.60
	14	41/0.253		3.50	1000	305	8.96
	12	65/0.253		3.90	1000	305	5.64
	10	105/0.253		5.10	1000	350	3.54
	8	165/0.253	1.25	7.40	305	100	2.23
	6	266/0.253	1.55	8.90	305	100	1.40
	4	240/0.253		10.50	305	100	0.88
UL 3386 AWM I A (OS-1)	22	7/0.254	0.76	2.38	2000	610	59.40
	20	7/0.320		2.55	2000	610	36.70
	18	7/0.404		2.80	2000	610	23.20
UL 3386 AWM I A (Solid)	26	1/0.404		2.00	2000	610	143.00
	24	1/0.511		2.10	2000	610	89.30
	22	1/0.643		2.25	2000	610	56.40
	20	1/0.813		2.40	2000	610	35.20
	18	1/1.024		2.65	2000	610	22.20
	16	1/1.290		2.90	2000	610	14.00
	14	1/1.630		3.25	2000	610	8.78
	12	1/2.050		3.65	1000	305	5.53
	10	1/2.588		4.20	1000	305	3.47

XLPVC insulated / 105 °C 300V

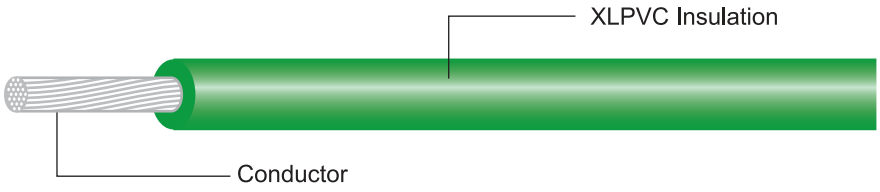
Application

Internal wiring of electrical, electronic and medical equipment and in appliances with the working high temperature

Product Description

Standard	UL, CUL AWM I A
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	105 °C 300V
Flammability	UL VW-1, CUL FT1
Insulation	Heat resistant XLPVC which is cross-linked by electron beam machine and stable thermally
Usage	Uniform thickness of wire to ensure easy stripping and cutting
	Resistant to acids, oils, alkalines, moisyure and fungus which are excellent compared with normal PVC wire

Construction



UL Style CUL Type	Conductor		Insulation Thickness	Overall Diameter Approx	Standard Put-Up		Conductor Resistance at 20 °C
	(AWG)	(No./mm)	(mm)	(mm)	(ft/coil)	(M/coil)	(ohm/km)
UL 3443 AWM I A (Stranded)	30	7/0.102	0.26	0.83	11500	3500	381.00
	28	7/0.127		0.90	11500	3500	239.00
	26	7/0.160		1.00	10000	3050	150.00
	24	11/0.160		1.13	2000	610	94.20
	22	17/0.160		1.28	2000	610	59.40
	20	21/0.180		1.47	2000	610	36.70
	18	34/0.180		1.73	2000	610	23.20
	16	26/0.253		2.01	2000	610	14.60
UL 3443 AWM I A (OS-1)	26	7/0.160		1.00	2000	610	150.00
	24	7/0.203		1.13	2000	610	94.20
	22	7/0.253		1.28	2000	610	59.40
	20	7/0.320		1.48	2000	610	36.70
	18	7/0.404		1.73	2000	610	23.20
	16	7/0.488		1.98	2000	610	14.60
UL 3443 AWM I A (Solid)	26	1/0.404		0.92	2000	610	143.00
	24	1/0.511		1.03	2000	610	89.30
	22	1/0.643		1.16	2000	610	56.40
	20	1/0.813		1.33	2000	610	35.20
	18	1/1.024		1.54	2000	610	22.20
	16	1/1.290		1.81	2000	610	14.00

Noted : This specification is reference only .Please contact to request an official specification from sales office.

XLPVC insulated / 105 °C 300V

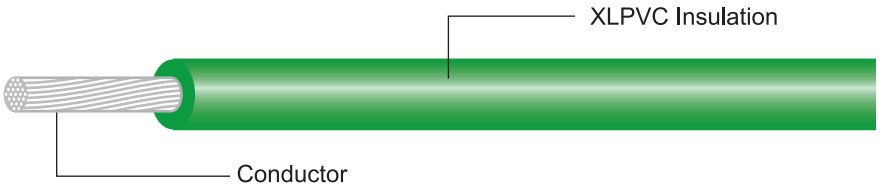
Application

Internal wiring of electrical, electronic and medical equipment and in appliances with the working high temperature

Product Description

Standard	UL
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	105 °C 300V
Flammability	UL VW-1
Insulation	Heat resistant XLPVC which is cross-linked by electron beam machine and stable thermally
Usage	Uniform thickness of wire to ensure easy stripping and cutting
	Resistant to acids, oils, alkalines, moisyure and fungus which are excellent compared with normal PVC wire

Construction



UL Style	Conductor		Insulation Thickness	Overall Diameter Approx	Standard Put-Up		Conductor Resistance at 20 °C
	(AWG)	(No./mm)	(mm)	(mm)	(ft/coil)	(M/coil)	(ohm/km)
UL 3610 (Stranded)	30	7/0.102	0.16	0.65	11500	3500	381.00
	28	7/0.127		0.71	11500	3500	239.00
	26	7/0.160		0.82	10000	3050	150.00
	24	11/0.160		0.95	2000	610	94.20
	22	17/0.160		1.55	2000	610	59.40
	20	21.0.180		1.30	2000	610	36.70
	18	34/0.180		1.55	2000	610	23.20
	16	26/0.253		1.85	2000	610	14.60

XLPE insulated / 150°C 300V

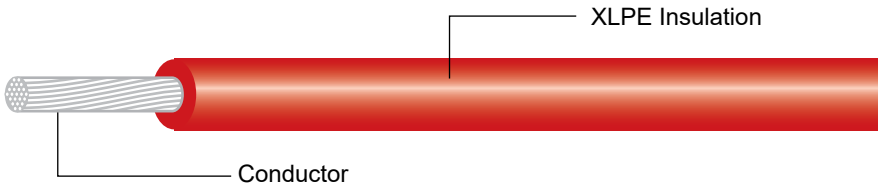
Application

Internal wiring of electrical, electronic and medical equipment.

Product Description

Standard	UL, CUL
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	150°C 300 V
Flammability	UL VW-1, CUL FT1
Insulation	Heat resistant XLPE which is cross-linked by electron beam machine and stable thermally
Usage	Uniform thickness of wire to ensure easy stripping and cutting
	Resistant to acids, oils, alkalines, moisyure and fungus

Construction



UL Style CUL Type	Conductor		Insulation Thickness (Minimum Average)	Over All Diameter Approx	Standard Put-Up	
	(AWG)	No/mm	(mm)	(mm)	(ft/coil)	(M/coil)
UL 3766	32	7/0.080	0.46	1.30	11500	3500
	30	7/0.102		1.40		
	28	7/0.127		1.50		
	26	7/0.160		1.60	10000	3050
	24	7/0.203		1.70	2000	610
	22	7/0.253		1.80		
	20	7/0.320		2.00		
	18	7/0.404		2.30		
	16	26/0.253		2.60		

XLPE insulated / 105 °C 300V

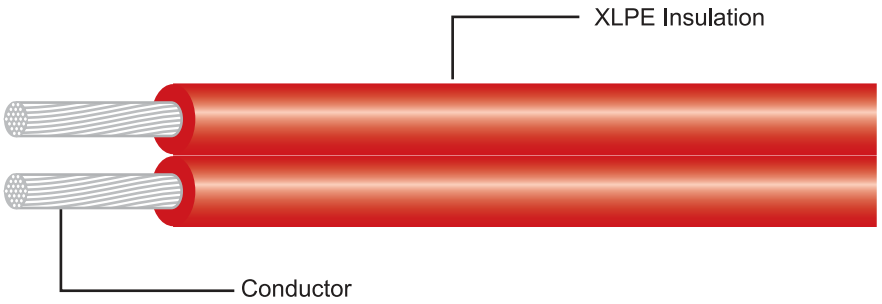
Application

For use in internal wiring of electrical and electronic equipment Soldering to PCB wire-trap type connector

Product Description

Standard	UL, CUL AWM I A
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	105°C 300V
Flammability	UL VW-1, CUL FT 1
Insulation	Heat resistant hologen free XLPE
Usage	Uniform thickness of wire to ensure easy stripping and cutting
	Resistant to acids, oils, alkalines, moisyure and fungus which are excellent compared with normal PVC wire

Construction



UL Style CUL Type	Conductor		Core	Insulation Thickness	Overall Diameter Approx	Standard Put-Up	Conductor Resistance at 20 °C
	(AWG)	(No./mm)	No.	(mm)	(mm)	(M/coil)	(ohm/km)
UL 4478 UL 21016 AWM I A	32	7/0.080	2	0.25	0.74 x 1.49	610	456.74
			3		0.74 x 2.23	610	
			4		0.74 x 2.98	610	
	30	7/0.102	2		0.81 x 1.62	610	381.00
			3		0.81 x 2.44	610	
			4		0.81 x 3.25	610	
	28	7/0.127	2		0.89 x 1.78	610	239.00
			3		0.89 x 2.66	610	
			4		0.89 x 3.55	610	
	26	7/0.160	2		0.99 x 1.98	610	150.00
			3		0.99 x 2.97	610	
			4		0.99 x 3.96	610	
	24	11/0.160	2		1.11 x 2.23	610	94.20
			3		1.11 x 3.34	610	
			4		1.11 x 4.45	610	
	22	17/0.160	2		1.26 x 2.52	610	59.40
			3		1.26 x3.79	610	
			4		1.26 x 5.05	610	
	20	21/0.180	2		1.45 x 2.91	610	36.70
			3		1.45 x 4.36	610	
			4		1.45 x5.81	610	
	18	34/0.180	2		1.71 x3.42	610	23.20
			3		1.71 x 5.14	610	
			4		1.71 x 6.85	610	
	16	26/0.253	2		1.99 x3.98	610	14.60
			3		1.99 x 5.97	610	
			4		1.99 x 7.96	610	

SR PVC insulated / 105 °C 300V

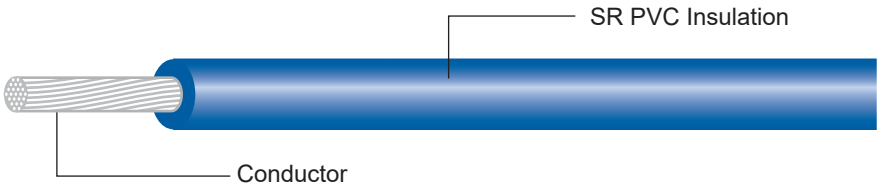
Application

Internal wiring of electrical, electronic and medical equipment.

Product Description

Standard	UL, CUL AWM I A
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	105 °C 300V
Flammability	UL VW-1, CUL FT1
Insulation	Heat resistant SR PVC which is RoHS Complied wire.
Usage	Uniform thickness of wire to ensure easy stripping and cutting Resistant to acids, oils, alkalines, moisyure and fungus

Construction



UL Style CUL Type	Conductor		Insulation Thickness	Overall Diameter Approx	Standard Put-Up	
	(AWG)	No/mm	(mm)	(mm)	(ft/coil)	(M/coil)
UL 10002	32	7/0.080	0.25	0.75	11500	3500
	30	7/0.102		0.80		
	28	7/0.127		0.90		
	26	7/0.160		1.00	10000	3050
	24	7/0.203		1.10	2000	610
	22	7/0.253		1.30		
	20	7/0.320		1.50		
	18	7/0.404		1.70		
	16	26/0.253		2.00		

PE insulated / 80°C 300V

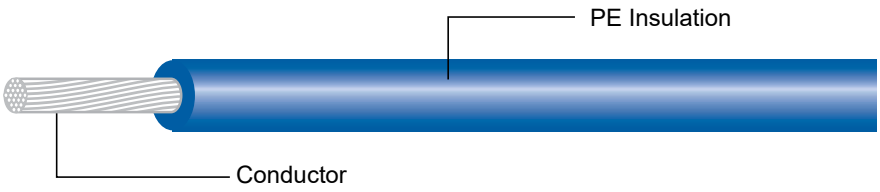
Application

Internal wiring of electrical, electronic and medical equipment.

Product Description

Standard	UL, CUL
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	80°C 300 V
Flammability	UL VW-1, CUL FT1
Insulation	Heat resistant PE which is RoHS Complied wire.
Usage	Uniform thickness of wire to ensure easy stripping and cutting
	Resistant to acids, oils, alkalines, moisyure and fungus

Construction



UL Style CUL Type	Conductor		Insulation Thickness	Overall Diameter Approx	Standard Put-Up	
	(AWG)	No/mm	(mm)	(mm)	(ft/coil)	(M/coil)
UL 10138	32	7/0.080	0.25	0.75	11500	3500
	30	7/0.102		0.80		
	28	7/0.127		0.90		
	26	7/0.160		1.00	10000	3050
	24	7/0.203		1.10	2000	610
	22	7/0.253		1.30		
	20	7/0.320		1.50		
	18	7/0.404		1.70		
	16	26/0.253		2.00		
	14	41/0.253		2.40	1000	305
	12	65/0.253		2.90		
	10	105/0.255		3.90		

50 AWG - 10 AWG

PVC insulated / 80 °C 150V

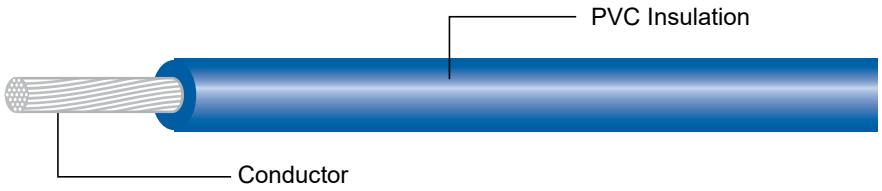
Application

Internal wiring of electrical, electronic and medical equipment.

Product Description

Standard	UL/CUL
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	80 °C 150V
Flammability	UL VW-1
Insulation	Heat resistant PVC which is RoHS Complied wire.
Usage	Uniform thickness of wire to ensure easy stripping and cutting
	Resistant to acids, oils, alkalines, moisyure and fungus

Construction



UL Style	Conductor		Insulation Thickness	Overall Diameter Approx	Standard Put-Up		Conductor Resistance at 20 °C
	(AWG)	(No./mm)	(mm)	(mm)	(ft/coil)	(M/coil)	(ohm/km)
UL 10272 (Stranded)	30 *	7/0.102	0.16	0.67	11500	3500	381.00
	28 *	7/0.127		0.80	11500	3500	239.00
	26 *	7/0.160		0.88	10000	3050	150.00
	24	7/0.203		0.98	2000	610	94.20
	22	7/0.253		1.13	2000	610	59.40
	20	7/0.320		1.32	2000	610	36.70

* No Marking

XLPE insulated / 105 °C 300V

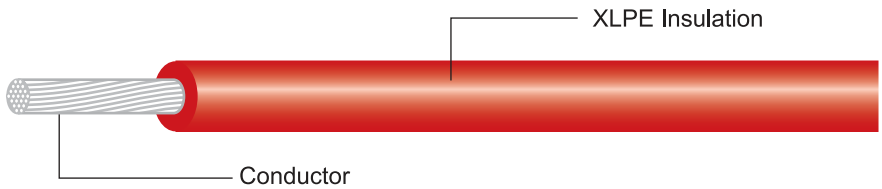
Application

Internal wiring of electrical, electronic and medical equipment and in appliances with the working high temperature

Product Description

Standard	UL
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	105 °C 300V
Flammability	UL VW-1
Insulation	Heat resistant XLPE which is cross-linked by electron beam machine and stable thermally
Usage	Uniform thickness of wire to ensure easy stripping and cutting
	Resistant to acids, oils, alkalines, moisyure and fungus which are excellent compared with normal PVC wire

Construction



UL Style	Conductor		Insulation Thickness	Overall Diameter Approx	Standard Put-Up		Conductor Resistance at 20 °C
	(AWG)	(No./mm)	(mm)	(mm)	(ft/coil)	(M/coil)	(ohm/km)
UL 10368 (Stranded)	30	7/0.102	0.25	0.80	11480	3500	381.00
	28	7/0.124		0.90	11480	3500	239.00
	26	7/0.160		1.00	11480	3500	150.00
	24	7/0.203		1.10	2000	610	94.20
	22	7/0.253		1.30	2000	610	59.40
	20	7/0.320		1.50	2000	610	36.70
	18	7/0.404		1.70	2000	610	23.20
	16	26/0.253		2.00	2000	610	14.60
UL 10368 (Solid)	30	1/0.253		0.76	11480	3500	361.00
	28	1/0.320		0.83	11480	3500	227.00
	26	1/0.404		0.90	11480	3500	143.00
	24	1/0.511		1.02	2000	610	89.30
	22	1/0.643		1.15	2000	610	56.40
	20	1/0.813		1.32	2000	610	35.20
	18	1/1.024		1.52	2000	610	22.20
	16	1/1.290		1.80	2000	610	14.00
UL 10368 (OS-1)	26	7/0.160		1.00	4000	1220	150.00
	24	7/0.203		1.10	2000	610	94.20
	22	7/0.253		1.30	2000	610	59.40
	20	7/0.320		1.50	2000	610	36.70
	18	7/0.404		1.80	2000	610	23.20

XLPE insulated / 105 °C 600V

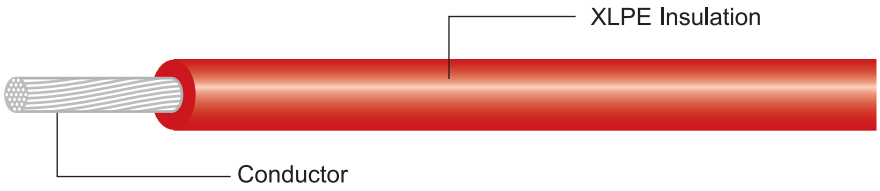
Application

Internal wiring of electrical, electronic and medical equipment and in appliances with the working high temperature

Product Description

Standard	UL, CUL
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	105 °C 600V
Flammability	UL VW-1, CUL FT1
Insulation	Heat resistant XLPE which is cross-linked by electron beam machine and stable thermally
Usage	Uniform thickness of wire to ensure easy stripping and cutting
	Resistant to acids, oils, alkalines, moisyure and fungus which are excellent compared with normal PVC wire

Construction



UL Style CUL Type	Conductor		Insulation Thickness	Overall Diameter Approx	Standard Put-Up		Conductor Resistance at 20 °C
	(AWG)	(No./mm)	(mm)	(mm)	(ft/coil)	(M/coil)	(ohm/km)
UL 10369 AWM I A (Stranded)	30	7/0.102	0.50	1.30	11480	3500	381.00
	28	7/0.122		1.40	11480	3500	239.00
	26	7/0.160		1.45	11480	3500	150.00
	24	11/0.160		1.60	2000	610	94.20
	22	17/0.160		1.75	2000	610	59.40
	20	21/0.180		1.95	2000	610	36.70
	18	34/0.180		2.20	2000	610	23.20
	16	26/0.253		2.50	2000	610	14.60
UL 10369 AWM I A (Solid)	30	1/0.253		1.25	11480	3500	361.00
	28	1/0.320		1.35	11480	3500	227.00
	26	1/0.404		1.40	11480	3500	143.00
	24	1/0.511		1.50	2000	610	89.30
	22	1/0.643		1.65	2000	610	56.40
	20	1/0.813		1.80	2000	610	35.20
	18	1/1.024		2.00	2000	610	22.20
	16	1/1.290		2.30	2000	610	14.00
UL 10369 AWM I A (OS-1)	26	7/0.160		1.50	4000	1220	150.00
	24	7/0.203		1.60	2000	610	94.20
	22	7/0.253		1.80	2000	610	59.40
	20	7/0.320		2.00	2000	610	36.70
	18	7/0.404		2.20	2000	610	23.20

FRPE insulated / 80 °C 300V

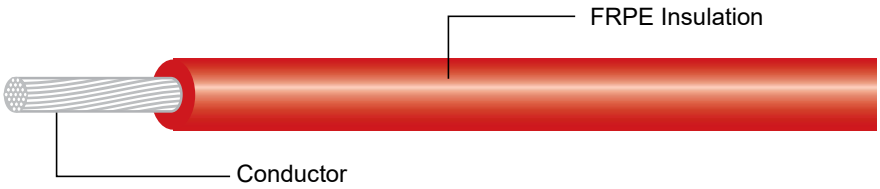
Application

Internal wiring of electrical, electronic and medical equipment and in appliances with the working high temperature

Product Description

Standard	UL,CUL
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	80 °C 300V
Flammability	UL VW-1
Insulation	Heat resistant FRPE stable thermally
Usage	Uniform thickness of wire to ensure easy stripping and cutting
	Resistant to acids, oils, alkalines, moisyure and fungus

Construction



UL Style CUL	Conductor		Insulation Thickness	Overall Diameter Approx	Standard Put-Up		Conductor Resistance at 20 °C
	(AWG)	(No./mm)	(mm)	(mm)	(ft/coil)	(M/coil)	(ohm/km)
UL 10602 (Stranded)	30	7/0.102	0.34	0.95	10000	3050	381.00
	28	7/0.127		1.05	10000	3050	239.00
	26	7/0.160		1.15	10000	3050	150.00
	24	7/0.203		1.30	2000	610	94.20
	22	7/0.253		1.45	2000	610	59.40
	20	7/0.320		1.60	2000	610	36.70
	18	7/0.404		1.90	2000	610	23.20
	16	26/0.256		2.25	2000	610	14.60
UL 10602 (Solid)	30	1/0.253	0.34	0.90	10000	3050	361.00
	28	1/0.320		1.00	10000	3050	227.00
	26	1/0.404		1.05	10000	3050	143.00
	24	1/0.511		1.15	2000	610	89.30
	22	4/0.643		1.30	2000	610	56.40
	20	1/0.813		1.45	2000	610	35.20
	18	1/1.024		1.65	2000	610	22.20
	16	1/1.290		1.95	2000	610	14.00

PE insulated / 80°C 30V

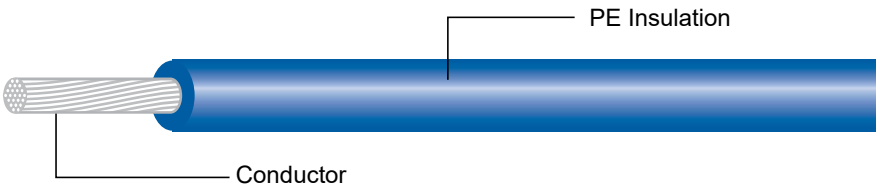
Application

Internal wiring of electrical, electronic and medical equipment.

Product Description

Standard	UL, CUL
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	80°C 30 V
Flammability	UL VW-1, CUL FT1
Insulation	Heat resistant PE which is RoHS Complied wire.
Usage	Uniform thickness of wire to ensure easy stripping and cutting
	Resistant to acids, oils, alkalines, moisyure and fungus

Construction



UL Style CUL Type	Conductor		Insulation Thickness	Overall Diameter Approx	Standard Put-Up	
	(AWG)	No/mm	(mm)	(mm)	(ft/coil)	(M/coil)
UL 10627	30	7/0.102	0.25	0.82	11500	3500
	28	7/0.127		0.90		
	26	7/0.160		1.00	10000	3050
	24	7/0.203		1.10	2000	610
	22	7/0.253		1.30		
	20	7/0.320		1.50		
	18	7/0.404		1.70		
	16	26/0.253		2.00		
	14	41/0.253		2.60	1000	305
	12	65/0.253		3.10		
	10	105/0.255		3.90		

FRPE insulated / Sheathed

Application

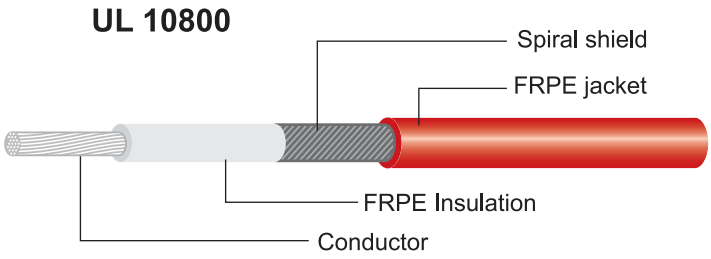
UL 10800

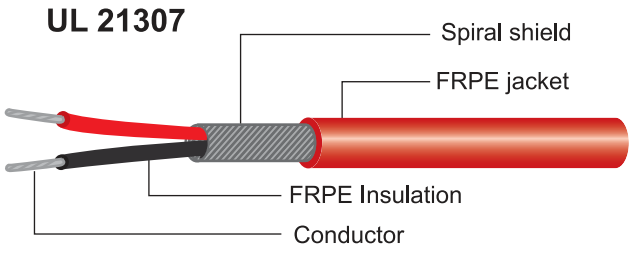
- Solid or stranded, tinned copper conductor, 30-16 AWG
- Tinned copper wire spiral shield.
- Insuiation / Jacket : UL 10800 : FRPE (HF) / FRPE (HF)
- Rated temperature : 80° C.
- Voltage : 300 V
- Pass VW-1 flame test.
- Use of spiral shield allows for fast and simple termination.

UL 21307

- Solid or stranded, tinned copper conductor.
- Insuiation / Jacket : UL 21307 : FRPE (HF) / FRPE (HF)
- Tinned copper wire overall spiral shield.
- Rated temperature : 80° C.
- VVoltage : 300 V
- Pass VW-1 flame test.

Construction





UL Style CUL Type	Conductor		Insulation Thickness	Spiral Shield	Overall Diameter Approx	Standard Put-Up	
	(AWG)	(No./mm)	(mm)	(No./mm)	(mm)	(ft/coil)	(M/coil)
UL 10800 (1-core)	30	7/0.102	0.25	26/0.120	1.70	2000	610
	28	7/0.127		29/0.120	1.80	2000	610
	26	7/0.160		32/0.120	2.00	2000	610
	24	7/0.203		35/0.120	2.20	2000	610
	22	17/0.160		41/0.120	2.40	2000	610
	20	26/0.160		45/0.120	2.60	2000	610
UL 21307 (2-core)	30	7/0.102	0.25	36/0.120	2.70	2000	610
	28	7/0.127		40/0.120	2.70	2000	610
	26	7/0.160		45/0.120	3.00	2000	610
	24	7/0.203		50/0.120	3.20	2000	610
UL 21307 (3-core)	30	7/0.102	0.25	54/0.120	2.80	2000	610
	28	7/0.127		50/0.120	3.00	2000	610
	26	7/0.160		55/0.120	3.20	2000	610
	24	7/0.203		61/0.120	3.35	2000	610

Noted : This specification is reference only .Please contact to request an official specification from sales office.

PVC insulated / 105 °C 2000V

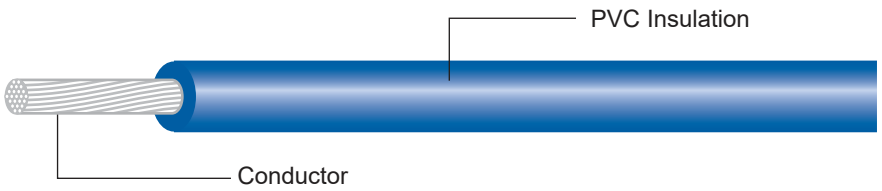
Application

Internal wiring of electrical, electronic and medical equipment.

Product Description

Standard	UL, CUL AWMTR-64
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	105 °C 2000V or 2000Vdc
Flammability	UL VW-1, CUL FT1
Insulation	Heat resistant PVC which is RoHS Complied wire.
Usage	Uniform thickness of wire to ensure easy stripping and cutting
	Resistant to acids, oils, alkalines, moisyure and fungus

Construction



UL Style CUL Type	Conductor		Insulation Thickness (Minimum Average)	Overall Diameter Approx	Standard Put-Up	
	(AWG)	No/mm	(mm)	(mm)	(ft/coil)	(M/coil)
UL 11627	30	7/0.102	0.76	1.98	2000	610
	28	7/0.127		2.10		
	26	7/0.160		2.20		
	24	7/0.203		2.30		
	22	7/0.253		2.50		
	20	7/0.320		2.70		
	18	7/0.404		2.90		
	16	26/0.253		3.20		
	14	41/0.253		3.50	1000	305
	12	65/0.253		4.10		
	10	105/0.255		5.10		
	8	165/0.253	1.14	6.80	305	100
	6	266/0.253	1.52	8.80		
	4	420/0.253		10.20		
	2	665/0.253		12.00		

Remark: UL 11627 conductor size 30 AWG - 2000 kcmil,

PVC insulated / 60,80,90,105 °C / 30V

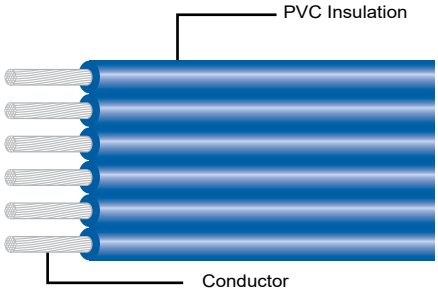
Application

Internal Wiring of Class 2 Circuits in Audio, Video and Electronic Equipment.

Product Description

Standard	UL, CUL AWM T1 IA
Conductor	Solid , Strand both bare copper and tinned coated copper
Rating	60,80,90,105°C 30V
Flammability	UL VW-1, CUL FT1
Insulation	Lead free heat resistant PVC
Usage	Uniform thickness of wire to ensure easy stripping and cutting Resistant to acids, oils, alkalines, moisyure and fungus

Construction



UL Style CUL Type	Conductor		Insulation Thickness	Number of Cores	Overall Diameter Approx (Width)	Overall Diameter Approx (Length)	Standard Put-Up	
	(AWG)	No/mm	(mm)		(mm) W	(mm)L	(ft/coil)	(M/coil)
UL20080	32	7/0.080	0.25	6	0.75	4.50	2000	610
	30	7/0.102			0.80	4.80		
	28	7/0.127			0.90	5.40		
	26	7/0.160			1.00	6.00		
	24	7/0.203			1.20	7.20	1000	305
	22	7/0.253			1.30	7.80		
	20	7/0.320			1.50	9.00		
	18	7/0.404			1.80	10.80		
	16	26/0.253			2.00	12.00		

PVC insulated / TPE sheathed / 105 °C 300V

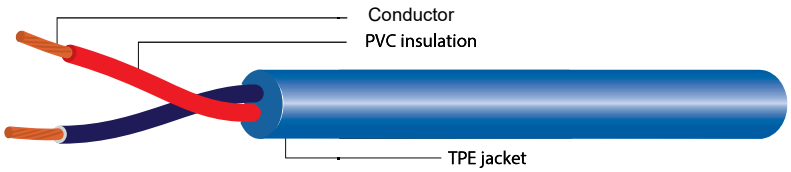
Application

Internal wiring of electronic equipment and appliances. Tags may indicate the following:
600 volts Peak for Electronic use only

Product Description

Standard	UL, CUL
Conductor	Solid , Strand both bare copper and tinned coated copper
Rating	105°C 300V
Assembly	Consists of two or more conductors, twisted pairs or groups of twisted conductors twisted together.
Style	Multiple-conductor cable using non-integral jacket

Construction



UL Style CUL Type	Conductor		Strand OD Approx	Insulation Thickness (Minimum Average)	Number of Cores	Covering	Filler	Inner Core Diameter Approx	Jacket thickness (Minimum Average)	Over All Diameter Approx
	(AWG)	No/mm	(mm)	(mm)				(mm)	(mm)	(mm)
UL 20327	32	7/0.080	0.2	0.25	2	Optional	Optional	1.50	0.76	3.17
	30	7/0.102	0.3					1.62		3.30
	28	7/0.127	0.4					1.80		3.50
	26	7/0.160	0.5					2.20		3.90
	24	7/0.203	0.6					2.30		4.00
	22	7/0.253	0.8					2.60		4.30
	20	7/0.320	1.0					3.00		4.70
	18	7/0.404	1.2					3.50		5.20
	16	26/0.253	1.5					4.00		5.70

Thickness: UL 20327, jacket thickness varies 0.76 mm to 2.03 mm according to inner core diameter.
For more 2 cores : contact our sales office

FRPE insulated / 80 °C 300V

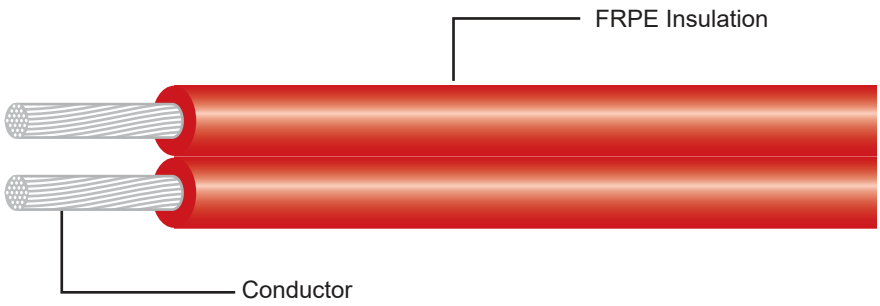
Application

For use in internal wiring of appliances, computers.

Product Description

Standard	UL
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	80 °C 300V
Flammability	UL VW-1
Insulation	Heat resistant hologen free FRPE
Usage	Uniform thickness of wire to ensure easy stripping and cutting
	Resistant to acids, oils, alkalines, moisyure and fungus which are excellent compared with normal PVC wire

Construction



UL Style	Conductor		Core	Insulation Thickness	Overall Diameter Approx	Standard Put-Up	Conductor Resistance at 20 °C
	(AWG)	(No./mm)	No.	(mm)	(mm)	(M/coil)	(ohm/km)
UL 21311	26	1/1.290	2	0.45	1.40 x 2.90	610	150.00
		7/0.160			1.40 x 3.40		
		7/0.160			1.40 x 3.90		
	24	11/0.160			1.50 x 3.10		94.20
		7/0.203			1.50 x 4.00		
	22	17/0.160			1.60 x 3.20		59.40
	18	7/0.404			2.15 x 4.30		23.20
		41/0.160			2.10 x 4.20		

mPPE sheathed / 80 °C 30V

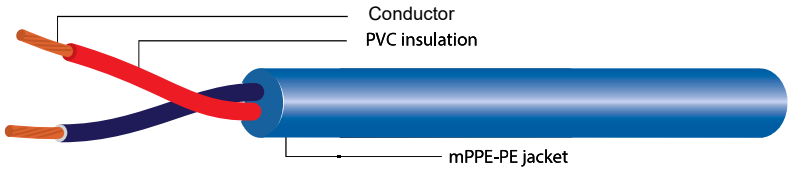
Application

Internal wiring in Class 2 circuits.

Product Description

Standard	UL, CUL
Conductor	Solid , Strand both bare copper and tinned coated copper
Rating	80°C 30V
Assembly	Two or more insulated conductors
Style	Multiple-conductor cable using non-integral jacket

Construction



UL Style CUL Type	Conductor		Insulation Thickness	Number of Cores	Covering	Shield	Inner Core Diameter Approx	Jacket Thickness (Minimum Average)	Over All Diameter Approx	Standard Put-Up	
	(AWG)	No/mm	(mm)				(mm)	(mm)	(mm)	(ft/coil)	(M/coil)
UL 21451	32	7/0.080	0.30	2	-	-	1.70	0.28	2.30	11500	3500
	30	7/0.102					1.80		2.46		
	28	7/0.127					2.00		2.70		
	26	7/0.160					2.20		2.90	10000	3050
	24	7/0.203					2.50		3.20	2000	610
	22	7/0.253					2.80		3.50		
	20	7/0.320					3.20		3.90		
	18	7/0.404					3.70		4.40		
	16	26/0.253					4.20		4.90		
UL 21455	32	7/0.080	0.30	2	Optional	Optional	1.70	0.38	2.60	11500	3500
	30	7/0.102					1.80		2.70		
	28	7/0.127					2.00		2.90		
	26	7/0.160					2.20		3.10	10000	3050
	24	7/0.203					2.50		3.40	2000	610
	22	7/0.253					2.80		3.70		
	20	7/0.320					3.20		4.10		
	18	7/0.404					3.70		4.60		
	16	26/0.253					4.20		5.10		
UL 21456	32	7/0.080	0.30	2	Optional	Optional	1.70	0.38	2.60	11500	3500
	30	7/0.102					1.80		2.70		
	28	7/0.127					2.00		2.90		
	26	7/0.160					2.20		3.10	10000	3050
	24	7/0.203					2.50		3.40	2000	610
	22	7/0.253					2.80		3.70		
	20	7/0.320					3.20		4.10		
	18	7/0.404					3.70		4.60		
	16	26/0.253					4.20		5.10		

:Thicknes : UL 21455, jacket thickness varies 0.38 mm to 1.37 mm according to inner core diameter.
: UL 21456 , jacket thickness varies 0.38 mm to 1.524 mm according to inner core diameter.
: For the inner core more than 2, please contact w ith marketing for detail informations.

mPPE-PE sheathed / 60 °C 30V

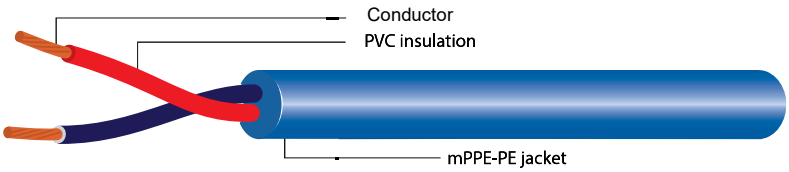
Application

Internal wiring in Class 2 circuits.

Product Description

Standard	UL, CUL
Conductor	Solid , Strand both bare copper and tinned coated copper
Rating	60°C 30V
Assembly	Two or more insulated conductors
Style	Multiple-conductor cable using non-integral jacket

Construction



UL Style CUL Type	Conductor		Insulation Thickness	Number of Cores	Coverin g	Shield	Inner Core Diameter Approx	Jacket Thickness (Minimum Average)	Over All Diameter Approx	Standard Put-Up	
	(AWG)	No/mm	(mm)				(mm)	(mm)	(mm)	(ft/coil)	(M/coil)
UL 21452	32	7/0.080	0.30	2	_	_	1.70	0.38	2.60	11500	3500
	30	7/0.102					1.80		2.70		
	28	7/0.127					2.00		2.90		
	26	7/0.160					2.20		3.10	10000	3050
	24	7/0.203					2.50		3.40	2000	610
	22	7/0.253					2.80		3.70		
	20	7/0.320					3.20		4.10		
	18	7/0.404					3.70		4.60		
	16	26/0.253					4.20		5.10		
UL 21453	32	7/0.080	0.30	2	Optional	Optional	1.70	0.38	2.60	11500	3500
	30	7/0.102					1.80		2.70		
	28	7/0.127					2.00		2.90		
	26	7/0.160					2.20		3.10	10000	3050
	24	7/0.203					2.50		3.40	2000	610
	22	7/0.253					2.80		3.70		
	20	7/0.320					3.20		4.10		
	18	7/0.404					3.70		4.60		
	16	26/0.253					4.20		5.10		
UL 21454	32	7/0.080	0.30	2	_	_	1.70	0.38	2.60	11500	3500
	30	7/0.102					1.80		2.70		
	28	7/0.127					2.00		2.90		
	26	7/0.160					2.20		3.10	10000	3050
	24	7/0.203					2.50		3.40	2000	610
	22	7/0.253					2.80		3.70		
	20	7/0.320					3.20		4.10		
	18	7/0.404					3.70		4.60		
	16	26/0.253					4.20		5.10		

Jacket Thickness : UL 21452 , jacket thickness varies 0.38 mm to 1.37 mm according to inner core diameter.
UL 21453 , jacket thickness varies 0.38 mm to 1.37 mm according to inner core diameter.
UL 21454 , jacket thickness varies 0.38 mm to 3.56 mm according to inner core diameter.
For the inner core more than 2, please contact w ith marketing for detail informations.

XLPVC insulated / 105°C 300V

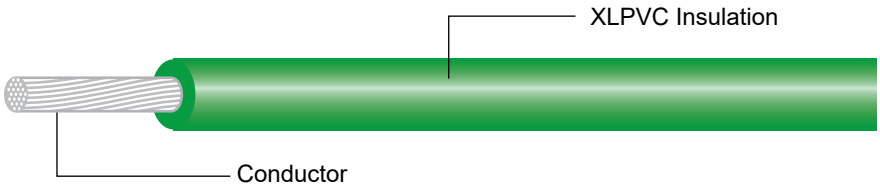
Application

Internal wiring of electrical, electronic and medical equipment and in appliances with the working high temperature

Product Description

Standard	UL, CUL AWM I A
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	105°C 300V
Flammability	UL VW-1, CUL FT1
Insulation	Heat resistant XLPVC which is cross-linked by electron beam machine and stable thermally
Usage	Uniform thickness of wire to ensure easy stripping and cutting
	Resistant to acids, oils, alkalines, moisyure and fungus which are excellent compared with normal PVC wire

Construction



UL Style CUL Type	Conductor		Insulation Thickness (Minimum Average)	Overall Diameter Approx	Standard Put-Up	
	(AWG)	No/mm	(mm)	(mm)	(ft/coil)	(M/coil)
UL 30063	30	7/0.102	0.38	1.20	11500	35000
	28	7/0.127		1.30		
	26	7/0.160		1.40	10000	3050
	24	7/0.203		1.50	2000	610
	22	7/0.253		1.70		
	20	7/0.320		1.90		
	18	7/0.404		2.10		
	16	26/0.253		2.40		

PVC insulated / 60,75 °C / 600V

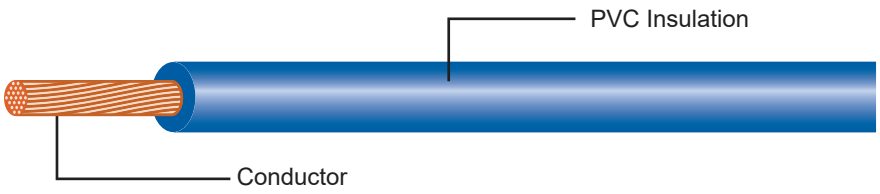
Application

Internal wiring of electrical, electronic and medical equipment.

Product Description

Standard	PSE
Conductor	Solid , Strand and OS-1 either tinned or bare copper
Rating	IV 60 °C 600V
	HIV 75 °C 600V
Insulation	Heat resistant PVC which is RoHS Complied wire.
Usage	Uniform thickness of wire to ensure easy stripping and cutting
	Resistant to acids, oils, alkalines, moisyure and fungus

Construction



Wire Size		Conductor (No./mm)	Insulation Thickness (mm)	Overall Diameter Approx. (mm)	Standard Put -up (M/Coil)	Withstand Current	
(mm)	(mm^2)					IV (A)	HIV (A)
1.2	-	1/1.200	0.80	2.80	300	19	23
1.6	-	1/1.600	0.80	3.20	300	27	33
2.0	-	1/2.000	0.80	3.60	300	35	43
2.6	-	1/2.600	1.00	4.60	300	48	59
3.2	-	1/3.200	1.20	5.60	300	62	76
4.0	-	1/4.000	1.40	6.80	300	81	99
5.0	-	1/5.000	1.60	8.20	200	107	131
-	0.9	7/0.400	0.80	2.80	300	17	21
-	1.25	7/0.450	0.80	3.00	300	19	23
-	2.0	7/0.600	0.80	3.40	300	27	33
-	3.5	7/0.800	0.80	4.00	300	37	45
-	5.5	7/1.000	1.00	5.00	300	49	60
-	8	7/1.200	1.20	6.00	300	61	75
-	14	7/1.600	1.40	7.60	300	88	108
-	22	7/2.000	1.60	9.20	200	115	141
-	38	7/2.600	1.80	11.50	100	162	198

PVC insulated / 60,105 °C / 300V

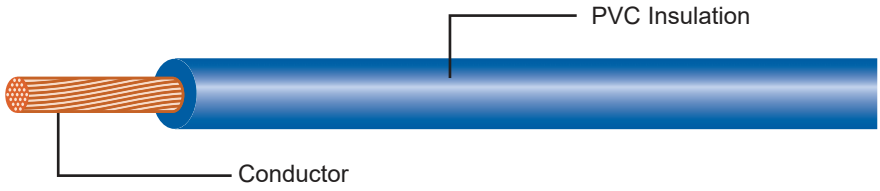
Application

Internal wiring of electrical, electronic and medical equipment.

Product Description

Standard	PSE (Japan)
Conductor	Strand bare copper
Rating	VSF 60 °C 300V
	HVSF 105 °C 300V
Insulation	Heat resistant PVC which is RoHS Complied wire.
Usage	Uniform thickness of wire to ensure easy stripping and cutting
	Resistant to acids, oils, alkalines, moisyure and fungus

Construction



Conductor		Insulation Thickness (mm)	Overall Diameter Approx. (mm)	Conductor Resistance (Ohm/km)
(mm^2)	(No./mm)			
0.14	7/0.160	0.40	1.28	140
0.30	12/0.180	0.60	1.92	61.10
0.30	12/0.180	0.40	1.52	61.10
0.37	7/0.260	0.60	1.98	58.90
0.50	20/0.180	0.80	2.50	36.70
0.75	30/0.180	0.80	2.80	24.40
1.25	50/0.180	0.80	3.10	14.70
2.00	41/0.250	0.80	3.40	9.50
3.50	45/0.320	0.89	4.30	5.43

TIS, SNI, VDE, IEC PVC insulated / 90 °C 300/500V

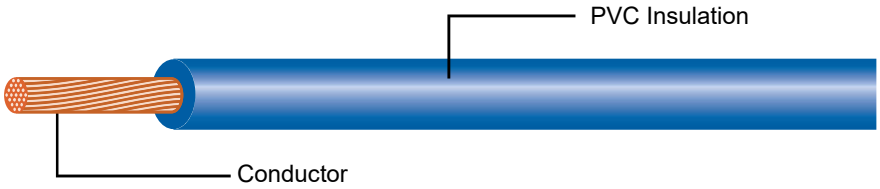
Application

Internal wiring of electrical, electronic and medical equipment.

Product Description

Standard	VDE0281-3, HD21.3, IEC60227-3 TIS 11-2553 Part 3-2553
Conductor	Strand bare copper
Temp. Rate	H05V-K 70 °C
	H07V-K 70 °C
	H05V2-K 90 °C
Voltage Rate	300 / 500V
Insulation	Heat resistant PVC which is RoHS Complied wire.
Usage	Uniform thickness of wire to ensure easy stripping and cutting
	Resistant to acids, oils, alkalines, moisyure and fungus

Construction



Type	Conductor		Insulation Thickness (mm)	Overall Diameter Approx (mm)	Standard Put-Up	Conductor Resistance at 20 °C (Ohm/km)
	(mm^2)	(No./mm)			(M/coil)	
H05V-K IEC 06 (VDE, TIS, SNI)	0.50	16/0.203	0.60	2.20	500	24.40
	0.75	24/0.203		2.40		14.70
	1.00	32/0.203		2.60		9.50
H07V-K IEC 02 (VDE, TIS, SNI)	1.50	30/0.253	0.70	3.10	500	13.30
	2.50	50/0.253	0.80	3.70	500	7.98
	4.00	80/0.253		4.30	100	4.95
	6.00	72/0.253		5.00	100	3.30
H05V2-K IEC 08 (VDE)	0.50	16/0.203	0,60	2.20	500	24.40
	0.75	24/0.203		2.40		14.70
	1.00	32/0.203		2.60		9.50

Noted : This specification is reference only .Please contact to request an official specification from sales office.

FEP insulated / FEP Sheathed / 150 , 200 °C / 300,600V

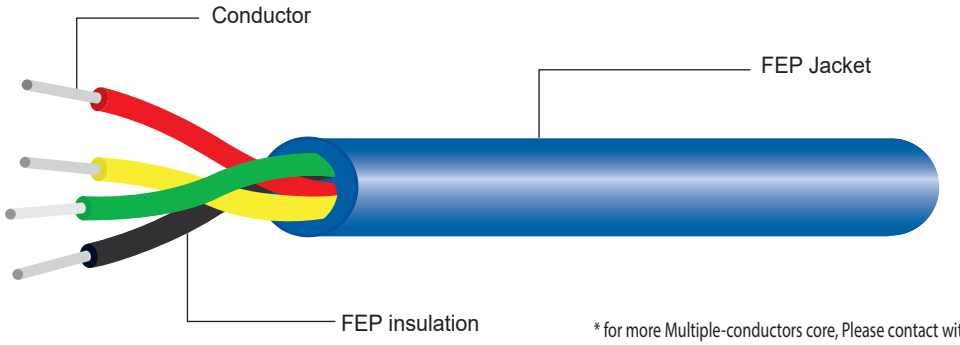
Application

Internal wiring of electrical, electronic and medical equipment and in appliances with the working high temperature

Product Description

Standard	UL , CUL
Conductor	Solid , Strand and OS-1 either tinned or bare copper , tinned copper , silver or nikel coated copper
Insulation	Two or more individually insulated conductors o regroup of insulated conductors cabled together Heat resistant FEP which is RoHS Complied wire.
Shieled	Optional
Jacket	Heat resistant FEP which is RoHS Complied wire
Rating	UL 2750 200°C 600V UL 2894 150°C 300V UL 2895 200°C 300V
Flammability	UL VW-1 ,CUL FT1
Usage	Uniform thickness of wire to ensure easy stripping and cutting Resistant to acids, oils, alkalines, moisyure and fungus

Construction



* for more Multiple-conductors core, Please contact with Marketing Department.

UL Style CUL Type	Insulation Style	Conductor	Core *	Insulation Thickness	Insulation Diameter Approx	Cable diameter	Jacket Thickness		Overall Diameter Approx	Rating	
	UL Style CUL Type	(AWG)		(mm)	(mm)	(mm)	(mils)	(mm)	(mm)	Temp. C	Voltage(V)
UL 2750	UL 1330	30	2 *	0.51	1.32	2.63	20	0.51	3.65	200	600
		28			1.39	2.78			3.28		
		26			1.48	2.95			3.46		
		24			1.62	3.23			3.74		
		22			1.77	3.53			4.04		
		20			1.95	3.90			4.41		
		18			2.19	4.38			4.89		
		16			2.49	4.98			5.49		
		14			2.88	5.76			6.27		
UL 2894	UL 1333	30		0.33	0.96	1.92	15	0.38	2.68	150	300
		28			1.03	2.06			2.45		
		26			1.12	2.24			2.62		
		24			1.26	2.52			2.90		
		22			1.41	2.82			3.20		
		20			1.60	3.19			3.57		
		18			1.84	3.67			4.05		
		16			2.14	4.27			4.65		
		14			2.53	5.05			5.43		
UL 2895	UL 1332	30		0.33	0.96	1.92	15	0.38	2.68	200	600
		28			1.03	2.06			2.45		
		26			1.12	2.24			2.62		
		24			1.26	2.52			2.90		
		22			1.41	2.82			3.20		
		20			1.60	3.19			3.57		
		18			1.84	3.67			4.05		
		16			2.14	4.27			4.65		
		14			2.53	5.05			5.43		

Noted : This specification is reference only .Please contact to request an official specification from sales office.

PFA insulated / 200, 250 °C / 300,600V

Application

Internal wiring of electrical, electronic and medical equipment and in appliances with the working high temperature

Product Description

Standard UL , CUL

Conductor Solid , Strand and OS-1 either tinned or bare copper , tinned copper , silver or nikel coated copper

Rating

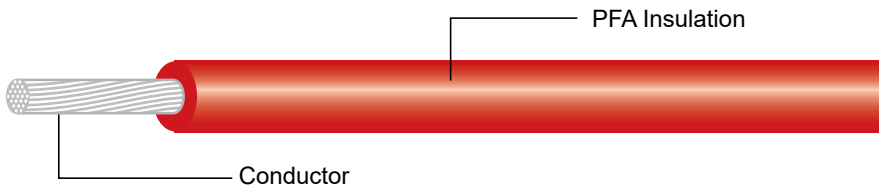
UL 1709 200°C 300V
UL 1710 200°C 600V
UL 1726 250°C 300V
UL 1727 250°C 600V
UL 10362 250°C 600V

Flammability UL VW-1 ,CUL FT1

Insulation Heat resistant PFA which is RoHS Complied wire.

Usage Uniform thickness of wire to ensure easy stripping and cutting
Resistant to acids, oils, alkalines, moisyure and fungus

Construction



UL Style CUL Type	Conductor	Insulation Thickness	Overall Diameter Approx	Standard Put-Up		Rating	
	(AWG)	(mm)	(mm)	(ft/coil)	(M/coil)	Temp. C	Voltage(V)
UL 1709 UL 1726	30	0.33	0.96	2000	610	UL 1709 (200) UL 1726 (250)	300
	28		1.03				
	26		1.12				
	24		1.26				
	22		1.41				
	20		1.60				
	18		1.84				
	16		2.14				
	14		2.53	1000	305		
UL 1710 UL 1727	30	0.51	1.32	2000	610	UL 1710 (200) UL 1727 (250)	600
	28		1.39				
	26		1.48				
	24		1.62				
	22		1.77				
	20		1.96				
	18		2.20				
	16		2.50				
	14		2.89	1000	305		
UL 10362	30	0.30	0.90	2000	610	250	600
	28		0.97				
	26		1.06				
	24		1.20				
	22		1.35				
	20		1.54				
	18		1.78				
	16		2.08				
	14		2.47	1000	305		

Noted : This specification is reference only .Please contact to request an official specification from sales office.

FEP insulated / 105, 150, 200°C / 300,600V, 3kV

Application

Internal wiring of electrical, electronic and medical equipment and in appliances with the working high temperature

Product Description

Standard UL , CUL

Conductor Solid , Strand and OS-1 either tinned or bare copper , tinned copper , silver or nikel coated copper

Rating

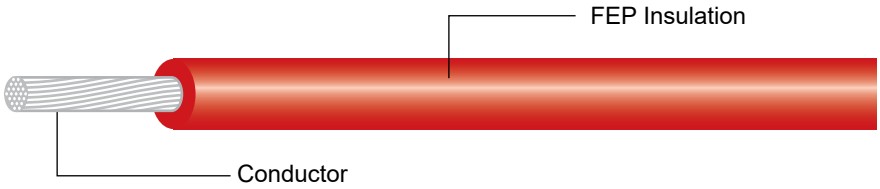
UL 1226	80°C	Unspecified Voltage
UL 1227	105°C	Unspecified Voltage
UL 1330	200°C	600 V
UL 1331	150°C	600V
UL 1332	200°C	300V
UL 1333	150°C	300V
UL 1813	200°C	3kV
UL 1887	150°C	600V
UL 1901	200°C	600V
UL 11331	200°C	600V

Flammability UL VW-1 ,CUL FT1

Insulation Heat resistant FEP which is RoHS Complied wire.

Usage Uniform thickness of wire to ensure easy stripping and cutting
Resistant to acids, oils, alkalines, moisyure and fungus

Construction



FEP insulated / 105, 150, 200°C / 300,600V, 3kV

UL Style CUL Type	Conductor	Insulation Thickness	Overall Diameter Approx	Standard Put-Up		Rating	
	(AWG)	(mm)	(mm)	(ft/coil)	(M/coil)	Temp °C	Voltage(V)
UL 11331	30	0.30	0.90	2000	610	200	600
	28		0.97				
	26		1.06				
	24		1.20				
	22		1.35				
	20		1.54				
	18		1.78				
	16		2.08				
	14		2.47				
UL 1226 UL 1227	30	0.21	0.72			UL 1226 (80) UL 1227 (105)	Unspecified
	28		0.79				
	26		0.88				
	24		1.02				
	22		1.17				
	20		1.36				
	18		1.84				
	16		2.14				
	14		2.53				
UL 1330 UL 1331	30	0.51	1.32			UL 1330 (200) UL 1331 (150)	600
	28		1.39				
	26		1.48				
	24		1.62				
	22		1.77				
	20		1.96				
	18		2.20				
	16		2.50				
	14		2.89				
UL 1332 UL 1333	30	0.33	0.96			UL 1332 (200) UL 1333 (150)	300
	28		1.03				
	26		1.12				
	24		1.26				
	22		1.41				
	20		1.60				
	18		1.84				
	16		2.14				
	14		2.53				
UL 1813	30	0.65	1.60	2000	610	200	3kV
	28		1.67				
	26		1.76				
	24		1.90				
	22		2.05				
	20		2.24				
	18		2.48				
	16		2.78				
	14		3.17				
UL 1887 UL 1901	30	0.36	1.02			UL 1887 (150) UL 1901 (200)	600
	28		1.09				
	26		1.18				
	24		1.32				
	22		1.47				
	20		1.66				
	18		1.90				
	16		2.20				
	14		2.59				

Noted : This specification is reference only .Please contact to request an official specification from sales office.

ETFE , FEP ,PFA insulated / 90,105,150,200°C / 30,300V

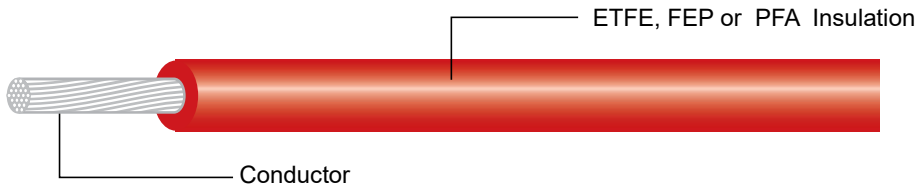
Application

Internal wiring of electrical, electronic and medical equipment and in appliances with the working high temperature

Product Description

Standard	UL , CUL
Conductor	Solid , Strand and OS-1 either tinned or bare copper , tinned copper , silver or nikel coated copper
Rating	UL1716 150°C 150V
	UL1894 200°C 30V
	UL10064 105°C 30V
	UL10231 90°C 30V
Flammability	UL VW-1 ,CUL FT1
Insulation	Heat resistant ETFE, FEP or PFA which is RoHS Complied wire.
Usage	Uniform thickness of wire to ensure easy stripping and cutting
	Resistant to acids, oils, alkalines, moisyure and fungus

Construction



UL Style CUL Type	Conductor	Insulation Thickness	Overall Diameter Approx	Standard Put-Up	
	(AWG)	(mm)	(mm)	(ft/coil)	(M/coil)
UL 10064 UL 10231	30	0.08	0.46	2000	610
	28		0.53		
	26		0.62		
	24		0.76		
	22		0.91		
	20		1.10		
	18		1.34		
	16		1.64		
	14		2.03		
UL 1716 UL 1894	30	0.20	0.71	2000*	610
	28		0.78		
	26		0.87		
	24		1.01		
	22		1.16		
	20		1.34		
	18		1.58		
	16		1.88		
	14		2.27		

* for more packing size, Please contact with sales office.

ETFE , XLETFE insulated / 80,150°C / 30,600V

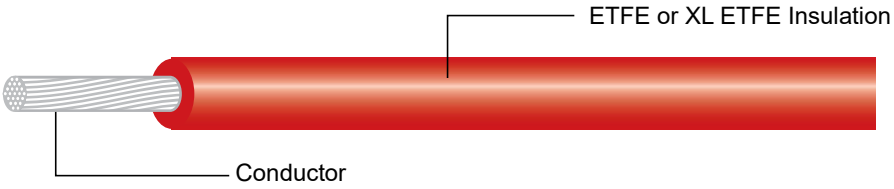
Application

Internal wiring of electrical, electronic and medical equipment and in appliances with the working high temperature

Product Description

Standard	UL , CUL
Conductor	Solid , Strand and OS-1 either tinned or bare copper , tinned copper , silver or nikel coated copper
Rating	UL 1867 80 °C 30V , UL 10126 150 °C 600V
Flammability	UL VW-1 ,CUL FT1
Insulation	Heat resistant ETFE or XL ETFE which is RoHS Complied wire.
Usage	Uniform thickness of wire to ensure easy stripping and cutting Resistant to acids, oils, alkalines, moisyure and fungus

Construction



UL Style CUL Type	Conductor	Insulation Thickness	Overall Diameter Approx	Standard Put-Up	
	(AWG)	(mm)	(mm)	(ft/coil)	(M/coil)
UL 10126 **ETFE**	30	0.27	0.84	2000*	610
	28		0.91		
	26		1.00		
	24		1.14		
	22		1.29		
	20		1.48		
	18		1.72		
	16		2.02		
	14		2.41		
UL 1867 **ETFE or XLETFE**	30	0.18 Insulation + Jacket	0.66	2000*	610
	28		0.73		
	26		0.81		
	24		0.96		
	22		1.11		
	20		1.29		
	18		1.53		
	16		1.83		
	14		2.22		

* for more packing size, Please contact with sales office.

Core Type / 80° C/ 30, 300V

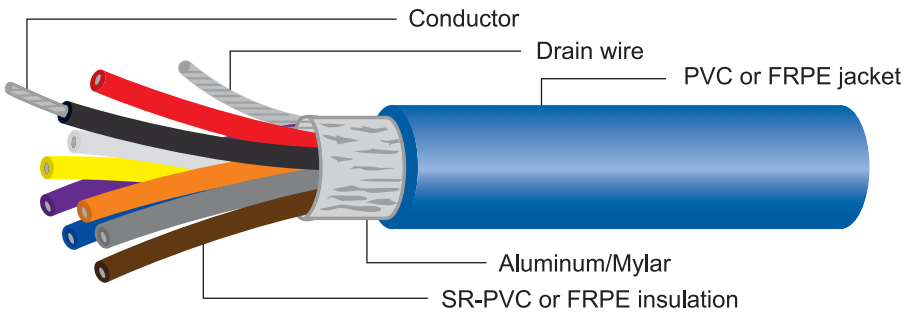
Application

- Sound broadcast, audio, instrumentation and computer
- cobles for EIA RS-232 applications

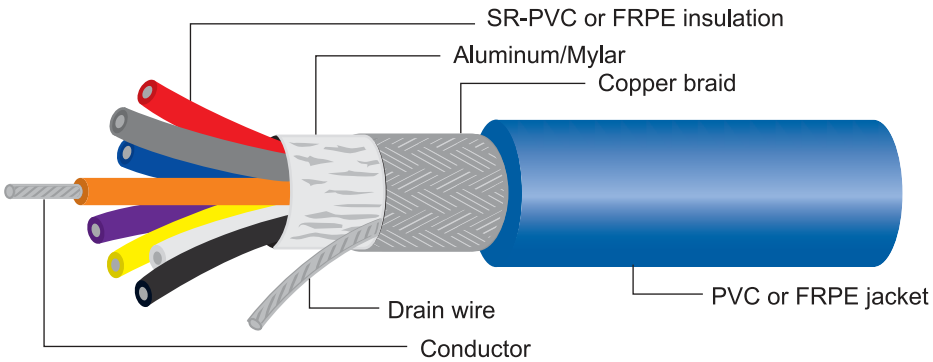
Product Description

- Tinned stranded copper conductor.
- Insulation / Jacket : UL 2464 : SR-PVC (LF) / PVC (LF)
  : UL 21143 : FRPE (HF) / FRPE (HF)
- Cores cabled under aluminum mylar shieid.
- Tinned stranded copper drain wire
- Unpaired computer and data transmission cable.
- Rating : UL 2464, 21143 : 80° C, 300 V
- Pass VW-1 flame test.

Construction



Aluminum / mylar Shield Type



Aluminum / mylar and Braid Shield Type

Core Type / 80°C/ 30, 300V

AL - Mylar Foll shield Type

Halogen Free style : UL 21143

UL Style CUL Type	Conductor		No. OF Core	Insulation Thickness	Jacket Thickness	Overall Diameter Approx	Standard Put-Up	
	(AWG)	(No./mm)		(mm)	(mm)	(mm)	(ft/coil)	(M/coil)
UL 2464 CUL I / IIA (AWM)	28	7/0.127	3	0.25	0.80	3.70	1000	305
			4		0.80	3.90	1000	305
			5		0.80	4.20	1000	305
			6		0.80	4.50	1000	305
			7		0.80	4.50	1000	305
			8		0.80	4.80	1000	305
			9		0.80	5.10	1000	305
			10		0.80	5.20	1000	305
			15		0.85	5.80	1000	305
			25		1.00	7.60	500	152
			37		1.00	8.30	500	152
			50		1.00	9.50	500	152
UL 2464 CUL I / IIA (AWM)	26	7/0.160	3	0.25	0.80	3.90	1000	305
			4		0.80	4.20	1000	305
			5		0.80	4.50	1000	305
			6		0.80	4.80	1000	305
			7		0.80	4.80	1000	305
			8		0.80	5.10	1000	305
			9		0.80	5.40	1000	305
			10		0.80	5.70	1000	305
			15		0.85	6.40	1000	305
			25		1.00	8.00	500	152
			37		1.00	9.20	500	152
			50		1.00	10.40	500	152
UL 2464 CUL I / IIA (AWM)	24	7/0.203	3	0.25	0.80	4.20	1000	305
			4		0.80	4.50	1000	305
			5		0.80	4.90	1000	305
			6		0.80	5.20	1000	305
			7		0.80	5.20	1000	305
			8		0.80	5.50	1000	305
			9		0.85	5.80	1000	305
			10		0.85	6.20	1000	305
			15		0.85	6.90	1000	305
			25		1.00	8.60	500	152
			37		1.00	9.80	500	152
			50		1.00	11.40	500	152
UL 2464 CUL I / IIA (AWM)	22	7/0.253	3	0.25	0.80	4.70	1000	305
			4		0.80	5.10	1000	305
			5		0.80	5.50	1000	305
			6		0.80	5.80	1000	305
			7		0.80	5.80	1000	305
			8		0.80	6.30	1000	305
			9		0.85	6.70	1000	305
			10		0.85	6.80	1000	305
			15		0.85	7.80	1000	305
			25		1.00	10.00	500	152
			37		1.00	11.30	500	152
			50		1.00	12.90	500	152
UL 2464 CUL I / IIA (AWM)	18	34/0.180	2	0.38	0.80	6.20	1000	305
			3		0.80	6.40	1000	305
			4		1.00	7.50	1000	305
			5		1.00	7.70	500	152

Noted : This specification is reference only .Please contact to request an official specification from sales office.

Core Type / 80° C/ 30, 300V

AL - Mylar Foll shield Type

Halogen Free style : UL 21143

UL Style CUL Type	Conductor		No. OF Core	Insulation Thickness	Braid Shield	Jacket Thickness	Overall Diameter Approx	Standard Put-Up	
	(AWG)	(No./mm)		(mm)	(mm)	(mm)	(mm)	(ft/coil)	(M/coil)
UL 2464 CUL I / IIA (AWM)	28	7/0.127	3	0.25	16/5/0.127	0.80	4.30	1000	305
			4		16/5/0.127	0.80	4.60	1000	305
			5		16/6/0.127	0.80	4.80	1000	305
			6		16/6/0.127	0.80	5.20	1000	305
			7		16/6/0.127	0.80	5.20	1000	305
			8		16/6/0.127	0.80	5.40	1000	305
			9		16/6/0.127	0.80	5.70	1000	305
			10		16/8/0.127	0.80	5.80	1000	305
			15		16/8/0.127	0.85	6.40	1000	305
			25		24/8/0.127	1.00	8.10	500	152
			37		24/8/0.127	1.00	8.90	500	152
			50		24/8/0.127	1.00	10.10	500	152
UL 2464 CUL I / IIA (AWM)	26	7/0.160	3	0.25	16/5/0.127	0.80	4.50	1000	305
			4		16/5/0.127	0.80	4.80	1000	305
			5		16/6/0.127	0.80	5.10	1000	305
			6		16/6/0.127	0.80	5.40	1000	305
			7		16/6/0.127	0.80	5.40	1000	305
			8		16/6/0.127	0.80	5.70	1000	305
			9		16/8/0.127	0.80	6.00	1000	305
			10		16/8/0.127	0.80	6.30	1000	305
			15		16/8/0.127	0.85	7.00	1000	305
			25		24/6/0.127	1.00	8.60	500	152
			37		24/7/0.127	1.00	9.70	500	152
			50		24/8/0.127	1.00	11.00	500	152
UL 2464 CUL I / IIA (AWM)	24	7/0.203	3	0.25	16/5/0.127	0.80	4.70	1000	305
			4		16/5/0.127	0.80	5.10	1000	305
			5		16/6/0.127	0.80	5.60	1000	305
			6		16/6/0.127	0.80	5.70	1000	305
			7		16/6/0.127	0.80	5.70	1000	305
			8		16/8/0.127	0.80	6.20	1000	305
			9		16/8/0.127	0.85	6.40	1000	305
			10		16/8/0.127	0.85	6.70	1000	305
			15		24/8/0.127	0.85	7.40	1000	305
			25		24/8/0.127	1.00	9.10	500	152
			37		24/8/0.127	1.00	10.30	500	152
			50		24/10/0.127	1.00	11.90	500	152
UL 2464 CUL I / IIA (AWM)	22	7/0.253	3	0.25	16/6/0.127	0.80	5.30	1000	305
			4		16/6/0.127	0.80	5.60	1000	305
			5		16/6/0.127	0.80	6.10	1000	305
			6		16/8/0.127	0.80	6.30	1000	305
			7		16/8/0.127	0.80	6.30	1000	305
			8		16/8/0.127	0.80	6.90	1000	305
			9		24/8/0.127	0.85	7.30	1000	305
			10		24/8/0.127	0.85	7.40	1000	305
			15		24/8/0.127	0.85	8.30	1000	305
			25		24/8/0.127	1.00	10.60	500	152
			37		24/10/0.127	1.00	11.90	500	152
			50		24/10/0.127	1.00	13.50	500	152
UL 2464 CUL I / IIA (AWM)	18	34/0.180	2	0.38	16/6/0.127	0.80	6.30	1000	305
			3		16/8/0.127	0.80	6.60	1000	305
			4		24/8/0.127	0.85	7.60	1000	305
			5		24/8/0.127	0.85	7.90	500	152

Noted : This specification is reference only .Please contact to request an official specification from sales office.

Computer cable / 105 °C 300V

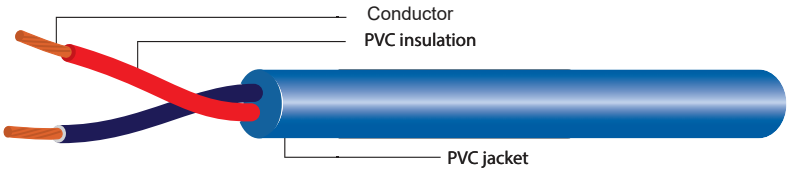
Application

- Sound broadcast, audio, instrumentation and computer
- External interconnection of electronic equipment or internal wiring of electronic equipment or appliances.
  Tags may also indicate the following: 600 Volts peak for Electronic Use Only

Product Description

- Tinned or Bare stranded copper conductor.
- Insulation / Jacket : PVC (LF) / PVC (LF)
- Cores cabled under aluminum mylar shieid.
- Unpaired computer and data transmission cable.
- Rating : 105° C, 300 V
- Pass VW-1 flame test.

Construction



UL Style CUL Type	Conductor		Insulation Thickness	Number of Cores	Covering	Shield	Inner Core Diameter Approx	Jacket thickness	Over All Diameter Approx	Standard Put-Up	
	(AWG)	No/mm	(mm)				(mm)	(mm)	(mm)	(ft/coil)	(M/coil)
UL 2517	32	7/0.080	0.25	2	Optional	Optional (Non-metallic braid is not authorized.)	1.50	0.76	3.17	2000	610
	30	7/0.102					1.62		3.30		
	28	7/0.127					1.80		3.50		
	26	7/0.160					2.20		3.90		
	24	7/0.203					2.30		4.00	1000	305
	22	7/0.253					2.60		4.30		
	20	7/0.320					3.00		4.70		
	18	7/0.404					3.50		5.20		
	16	26/0.253					4.00		5.70		

No of core >2 cores ,please contact our sales office

Pair Type / 80° C / 30, 300V

Application

Fail Shield Type :

• Sound broadcast, audio, instrumentation and computer cables for EIA RS-232 applications

Braid Shield Type :

• computer cables for EIA RS-232 and CAD/CAM application

Product Description

Foil Shield Type

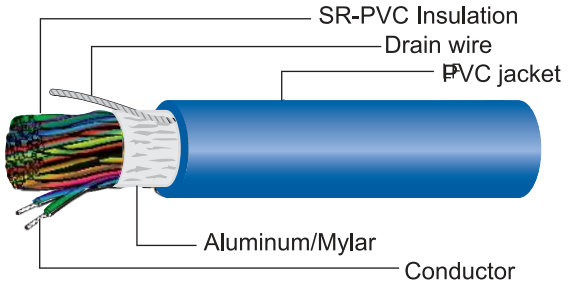
• Tinned stranded copper conductor.
• Insulation / Jacket : UL 20276 : SR-PVC (LF) / PVC (LF)
: UL 21100 : FRPE (HF) / FRPE (HF)
• Paired cores cabled under aluminum mylar shield
• Tinned stranded copper drain wire.
• Paired computer and data transmission cable.
• Rated temperature; 80 °C Rated voltage: 300 V
• Pass VW-1 flame test.

Braid Shield Type :

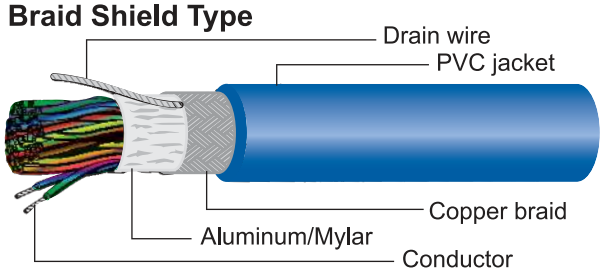
• Tinned stranded copper conductor.
• Insulation / Jacket : UL 20276 : SR-PVC (LF) / PVC (LF)
: UL 21100 : FRPE (HF) / FRPE (HF)
• Paired cores cabled under aluminum mylar shield
• Tinned stranded copper drain wire.
• Tinned Copper braid shield, 85% coverage
• Paired computer and data transmission cable.
• Rated UL 20276, 21100 80 °C, 30 V
• Pass VW-1 flame test.

Construction

Foil Shield Type



Braid Shield Type



Halogen Free style : UL 21100

UL Style CUL Type	Conductor		No. OF Pair	Insulation Thickness	Braid Shield	Jacket Thickness	Overall Diameter Approx	Standard Put-Up	
	(AWG)	(No./mm)		(mm)	(mm)	(mm)	(mm)	(ft/coil)	(M/coil)
UL 20276 CUL I / IIA (AWM) (Foil Shield)	24	7/0.203	4	0.25	-	0.85	6.6	1000	305
			6	0.25	-	0.85	7.2	500	152
			7	0.25	-	0.85	7.8	500	152
			8	0.25	-	0.85	8.0	500	152
			9	0.25	-	0.85	8.6	500	152
			10	0.25	-	1.02	9.0	500	152
			15	0.25	-	1.02	10.6	500	152
			19	0.25	-	1.02	11.6	500	152
			25	0.25	-	1.02	12.5	500	152
			50	0.25	-	1.02	17.7	500	152
UL 20276 CUL I / IIA (AWM) (Braid Shield)	24	7/0.203	2	0.25	16/8/0.127	0.80	6.3	1000	305
			3	0.25	16/8/0.127	0.85	6.9	1000	305
			4	0.25	24/8/0.127	0.85	7.2	500	152
			5	0.25	24/8/0.127	0.85	7.4	500	152
			6	0.25	24/8/0.127	0.85	7.7	500	152
			7	0.25	24/8/0.127	1.02	8.3	500	152
			8	0.25	24/8/0.127	1.02	8.5	500	152
			10	0.25	24/8/0.127	1.02	9.5	500	152
			12	0.25	24/10/0.127	1.02	10.1	500	152
			15	0.25	24/10/0.127	1.02	11.2	500	152
			18	0.25	24/10/0.127	1.02	12.1	500	152
			25	0.25	24/10/0.127	1.02	13.0	500	152

Noted : This specification is reference only .Please contact to request an official specification from sales office.

Pair Type / 80° C / 30, 300V

AL - Mylar Foil & Braid Shield Type

Halogen Free style : UL 21100

UL Style	Conductor		No. OF Pair	Insulation Thickness	Braid Shield	Jacket Thickness	Overall Diameter Approx	Standard Put-Up	
	(AWG)	(No./mm)		(mm)	(mm)	(mm)	(mm)	(ft/coil)	(M/coil)
UL 20276 UL 21100 (Foil Shield)	26	7/0.160	6	0.25	-	0.85	6.70	500	152
			7		-	0.85	7.10	500	152
			8		-	0.85	7.40	500	152
			9		-	0.85	7.70	500	152
			10		-	0.85	8.20	500	152
			15		-	1.00	9.50	500	152
			20		-	1.00	10.60	500	152
			25		-	1.00	11.60	500	152
UL 20276 UL 21100 (Foil Shield)	24	7/0.203	6	0.25	-	0.85	7.50	500	152
			7		-	0.85	7.80	500	152
			8		-	0.85	8.10	500	152
			9		-	0.85	8.50	500	152
			10		-	1.00	9.00	500	152
			15		-	1.00	10.40	500	152
			20		-	1.00	11.90	500	152
			25		-	1.00	12.80	500	152
UL 20276 UL 21100 (Braid Shield)	26	7/0.160	6	0.25	24/8/0.127	0.85	7.30	500	152
			7		24/8/0.127	0.85	7.60	500	152
			8		24/8/0.127	0.85	8.00	500	152
			9		24/8/0.127	0.85	8.20	500	152
			10		24/8/0.127	1.00	8.60	500	152
			15		24/10/0.127	1.00	10.10	500	152
			20		24/10/0.127	1.00	11.20	500	152
			25		24/10/0.127	1.00	12.20	500	152
UL 20276 UL 21100 (Braid Shield)	24	7/0.203	6	0.25	24/8/0.127	0.85	8.10	500	152
			7		24/8/0.127	0.85	8.40	500	152
			8		24/8/0.127	0.85	8.70	500	152
			9		24/8/0.127	0.85	9.10	500	152
			10		24/8/10.127	1.00	9.60	500	152
			15		24/10/0.127	1.00	11.00	500	152
			20		24/10/0.127	1.00	12.50	500	152
			25		24/10/0.127	1.00	13.40	500	152

Noted : This specification is reference only .Please contact to request an official specification from sales office.

Pair Type / 80° C / 30, 300V

AL - Mylar Foil & Braid Shield Type

Halogen Free style : UL 21100

UL Style	Conductor		No. OF Core	Insulation Thickness	Braid Shield	Jacket Thickness	Overall Diameter Approx	Standard Put-Up	
	(AWG)	(No./mm)		(mm)	(mm)	(mm)	(mm)	(ft/coil)	(M/coil)
UL 20276 UL 21100	30	7/0.102	5	0.25	16/6/0.127	0.80	4.30	1000	305
			6		16/6/0.127	0.80	4.80	1000	305
			7		16/6/0.127	0.80	4.80	1000	305
			8		16/6/0.127	0.80	5.00	1000	305
			9		16/6/0.127	0.80	5.30	1000	305
			10		16/6/0.127	0.80	5.40	1000	305
			15		16/8/0.127	0.90	6.10	1000	305
			20		16/8/0.127	1.00	6.80	1000	305
			25		24/8/0.127	1.00	7.20	500	152
UL 20276 UL 21100	28	7/0.127	5	0.25	16/6/0.127	0.80	4.80	1000	305
			6		16/6/0.127	0.80	5.20	1000	305
			7		16/6/0.127	0.80	5.20	1000	305
			8		16/6/0.127	0.80	5.40	1000	305
			9		16/6/0.127	0.80	5.70	1000	305
			10		16/6/0.127	0.80	5.80	1000	305
			15		16/8/0.127	0.90	6.50	1000	305
			20		16/8/0.127	1.00	7.90	1000	305
			25		26/8/0.127	1.00	8.10	500	152
UL 20276 UL 21100	26	7/0.160	5	0.25	16/6/0.127	0.80	5.10	1000	305
			6		16/6/0.127	0.80	5.40	1000	305
			7		16/6/0.127	0.80	5.40	1000	305
			8		16/6/0.127	0.80	5.70	1000	305
			9		16/8/0.127	0.80	6.00	1000	305
			10		16/8/0.127	0.80	6.30	1000	305
			15		16/8/0.127	0.90	7.10	1000	305
			20		16/8/0.127	1.00	7.80	1000	305
			25		24/8/0.127	1.00	8.60	500	152
UL 20276 UL 21100	24	7/0.203	5	0.25	16/6/0.127	0.80	5.60	1000	305
			6		16/6/0.127	0.80	5.70	1000	305
			7		16/6/0.127	0.80	5.70	1000	305
			8		16/6/0.127	0.80	6.20	1000	305
			9		16/8/0.127	0.80	6.40	1000	305
			10		16/8/0.127	0.80	6.80	1000	305
			15		24/8/0.127	0.90	7.50	1000	305
			20		24/8/0.127	1.00	8.60	1000	305
			25		24/6/0.127	1.00	9.10	500	152
UL 20276 UL 21100	22	7/0.253	5	0.25	16/6/0.127	0.80	6.10	1000	305
			6		16/6/0.127	0.80	6.30	1000	305
			7		16/8/0.127	0.80	6.30	1000	305
			8		16/8/0.127	0.80	6.90	1000	305
			9		24/8/0.127	0.80	7.40	1000	305
			10		24/8/0.127	0.80	7.50	1000	305
			15		24/8/0.127	0.90	8.30	1000	305
			20		24/8/0.127	1.00	9.20	1000	305
			25		24/6/0.127	1.00	10.60	500	152

Noted : This specification is reference only .Please contact to request an official specification from sales office.

Pair Type / 80° C / 30, 300V

AL - Mylar Foil & Braid Shield Type

Halogen Free style : UL 21100

UL Style	Conductor		No. OF Core	Insulation Thickness	Jacket Thickness	Overall Diameter Approx	Standard Put-Up	
	(AWG)	(No./mm)		(mm)	(mm)	(mm)	(ft/coil)	(M/coil)
UL 20276 UL 21100	30	7/0.102	5	0.25	0.80	3.80	1000	305
			6		0.80	4.10	1000	305
			7		0.80	4.10	1000	305
			8		0.80	4.30	1000	305
			9		0.80	4.70	1000	305
			10		0.80	4.80	1000	305
			15		0.90	5.50	1000	305
			20		1.00	6.30	1000	305
			25		1.00	6.70	500	152
UL 20276 UL 21100	28	7/0.127	5	0.25	0.80	4.20	1000	305
			6		0.80	4.50	1000	305
			7		0.80	4.50	1000	305
			8		0.80	4.80	1000	305
			9		0.80	5.10	1000	305
			10		0.80	5.20	1000	305
			15		0.90	5.90	1000	305
			20		1.00	7.40	1000	305
			25		1.00	7.60	500	152
UL 20276 UL 21100	26	7/0.160	5	0.25	0.80	4.50	1000	305
			6		0.80	4.80	1000	305
			7		0.80	4.80	1000	305
			8		0.80	5.10	1000	305
			9		0.80	5.40	1000	305
			10		0.80	5.70	1000	305
			15		0.90	6.40	1000	305
			20		1.00	7.30	1000	305
			25		1.00	8.00	500	152
UL 20276 UL 21100	24	7/0.203	5	0.25	0.80	4.90	1000	305
			6		0.80	5.20	1000	305
			7		0.80	5.20	1000	305
			8		0.80	5.50	1000	305
			9		0.80	5.80	1000	305
			10		0.80	6.30	1000	305
			15		0.90	7.00	1000	305
			20		1.00	8.10	1000	305
			25		1.00	8.60	500	152
UL 20276 UL 21100	22	7/0.253	5	0.25	0.80	5.50	1000	305
			6		0.80	5.80	1000	305
			7		0.80	5.80	1000	305
			8		0.80	6.40	1000	305
			9		0.80	6.80	1000	305
			10		0.80	6.90	1000	305
			15		0.90	7.90	1000	305
			20		1.00	8.90	1000	305
			25		1.00	10.00	500	152

Noted : This specification is reference only .Please contact to request an official specification from sales office.

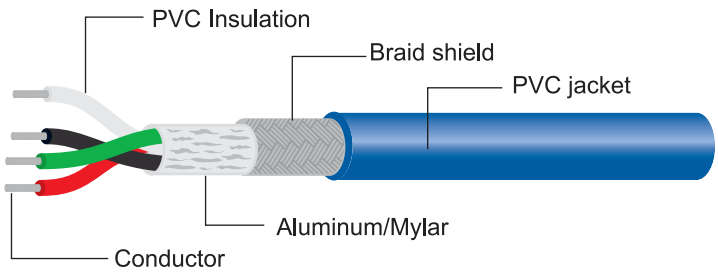
SUB CHANNEL TYPE

Product Description

The development for the USB (Universal Serials Bus) cable comes form three considerations as follow:

- It is connection from PC to telephone and fax.
- This cable is easy to use, from PC's I/O interfaces serial or parallel parts to keyboard/mouse/joystick interfaces, etc, do not have the attributes of plug and play.
- It is a fast, bidirectional, is chromous, low-cost, dynamically attachable serial interface that is consistent with the requirements of the PC platform of today and tomorrow.

Construction



UL Style	No.of Paris & Cores	AWG	Jacket O.D. / Shield	D.C. Resistance (Ω /km)	Frequence Impedance		Frequence Attenuation		Frequence Delay Time	
					(MHz)	(ohm)	(MHz)	(dB)	(MHz)	(ns/m)
UL 2990 ULCM	2 Cores & 2 Cores	28AWG (2 Cores) 28AWG (2 Cores)	4.20mm	232 (28AWG) 232 (28AWG)	1 ∫ 1.5	90±15%	0.064 0.256 0.512 0.772 1.000 1.500	4.8 6.7 8.2 9.4 12.0 14.7	1 ∫ 1.5	7.7
	2 Cores & 2 Cores	28AWG (2 Cores) 26AWG (2 Cores)	4.40mm	232 (28AWG) 145 (26AWG)						
	2 Cores & 2 Cores	28AWG (2 Cores) 24AWG (2 Cores)	4.70mm	232 (28AWG) 90.9 (24AWG)						
	2 Cores & 2 Cores	28AWG (2 Cores) 22AWG (2 Cores)	5.00mm	232 (28AWG) 57.4 (22AWG)						
	2 Cores & 2 Cores	28AWG (2 Cores) 20AWG (2 Cores)	5.50mm	232 (28AWG) 35.8 (20AWG)						

Noted : This specification is reference only .Please contact to request an official specification from sales office.

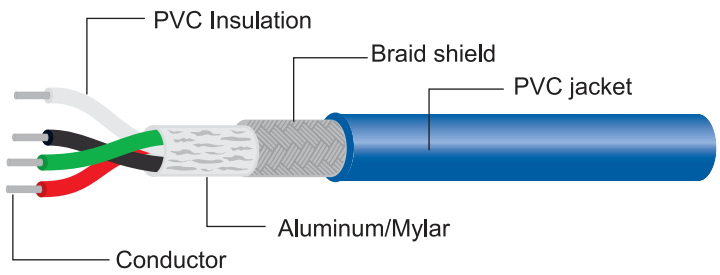
FULLY RATED TYPE

Product Description

The development for the USB (Universal Serials Bus) cable comes form three considerations as follow:

- It is connection from PC to telephone and fax.
- This cable is easy to use, from PC's I/O interfaces serial or parallel parts to keyboard/mouse/joystick interfaces, etc, do not have the attributes of plug and play.
- It is a fast, bidirectional, is chromous, low-cost, dynamically attachable serial interface that is consistent with the requirements of the PC platform of today and tomorrow.

Construction



UL Style	No.of Paris & Cores	AWG	Jacket O.D. / Shield	D.C. Resistance (Ω /km)	Frequence Impedance (MHz)	Frequence Impedance (ohm)	Frequence Attenuation (MHz)	Frequence Attenuation (dB)	Frequence Delay Time (MHz)	Frequence Delay Time (ns/m)
UL 2990 ULCM	1 Pair & 2 Cores	28AWG (1 Pair) 28AWG (2 Cores)	4.30mm / Aluminum Foil + 65% Tinned Copper Braid	232 (28AWG) 232 (28AWG)	1 ∫ 16	90±15%	0.064 0.256 0.512 0.772 1.000 4.000 8.000 10.000 16.000	4.8 6.7 8.2 9.4 12.0 24.0 35.0 38.0 48.0	1 ∫ 16	6.0
	1 Pair & 2 Cores	28AWG (1 Pair) 26AWG (2 Cores)	5.00mm / Aluminum Foil + 65% Tinned Copper Braid	232 (28AWG) 145 (26AWG)						
	1 Pair & 2 Cores	28AWG (1 Pair) 24AWG (2 Cores)	5.30mm / Aluminum Foil + 65% Tinned Copper Braid	232 (28AWG) 90.9 (24AWG)						
	1 Pair & 2 Cores	28AWG (1 Pair) 22AWG (2 Cores)	5.60mm / Aluminum Foil + 65% Tinned Copper Braid	232 (28AWG) 57.4 (22AWG)						
	1 Pair & 2 Cores	28AWG (1 Pair) 20AWG (2 Cores)	6.00mm / Aluminum Foil + 65% Tinned Copper Braid	232 (28AWG) 35.8 (20AWG)						

Noted : This specification is reference only .Please contact to request an official specification from sales office.

PVC insulated / PVC sheathed / 60,105 °C / 300V

Application

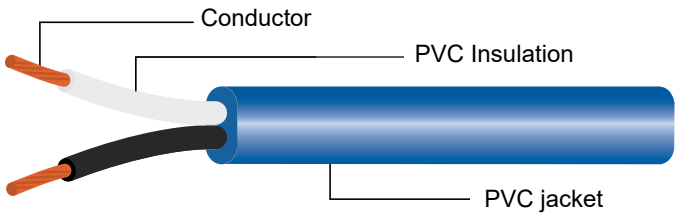
- SPT-1 SPT-2 NISPT-1 NISPT-2 For use in household clocks, fans, radios and similar appliances.
- SPT-3 For heavy-duty use in damp location: especially suitable for refrigerators and room-size air conditioners.
- UL 20288 For use in chain link of chain suspended lighting fixtures.

Product Description

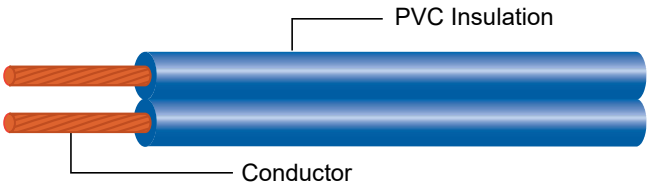
- Bare stranded copper conductor,
- Color-coded PVC insulation. (Lead Free)
- Rated temperature: 60 °C or 105 °C, Rated voltage: 300 V
- Pass UL VW-1 & CSA flame test.

Construction

NISPT CABLE



SPT CABLE



UL Style & CSA Type	Conductor		No. OF Core	Insulation Thickness		Overall Diameter	Standard Put-Up	
	(AWG)	(No./mm)		(mm)		(mm)	(ft/coil)	(M/coil)
SPT-1	18	41/0.160	2	0.76		2.70 x 5.40	1000	305
	18	41/0.160	3			2.70 x 8.00	1000	305
SPT-2	18	41/0.160	2	1.14		3.50 x7.00	1000	305
	16	65/0.160	2			3.70 x 7.20	1000	305
	18	41/0.160	3			3.50 x 8.60	1000	305
	16	65/0.160	3			3.80 x 9.60	1000	305
SPT-3	18	41/0.160	2	1.52		4.40 x 8.70	1000	305
	16	65/0.160	2	1.52		4.6 x 9.10	1000	305
	14	41/0.253	2	2.03		6.00 x 10.80	500	305
	12	65/0.253	2	2.41		7.40 x 14.00	500	152
	10	105/0.253	2	2.79		9.10 x 18.20	500	152
	18	41/0.160	3	1.52		4.40 x 10.70	1000	305
	16	65/0.160	3	1.52		4.75 x 11.80	500	152
	14	41/0.253	3	2.03		6.00 x 14.50	500	152
	12	65/0.253	3	2.41		7.00 x 15.40	500	152
	10	105/0.253	3	2.79		9.10 x 18.80	500	152
UL 20288	18	41/0.160	2	1.02		3.25 x 5.80	1000	305
NISPT-1	18	41/0.160	2	INSU	JKT THICK	Thick Bet. Cond.	Overall Dia (APPROX)	
				0.38	0.55	0.38	3.10 x 5.60	305
NISPT-2	18	41/0.160	2	0.76	0.55	0.51	3.90 x 7.30	305
	16	65/0.160	2	0.76	0.55	0.51	4.20 x 7.80	305

Noted : This specification is reference only .Please contact to request an official specification from sales office.

PVC insulated / 60,75,90,105 °C / 300V

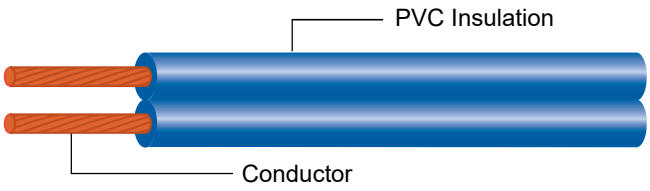
Application

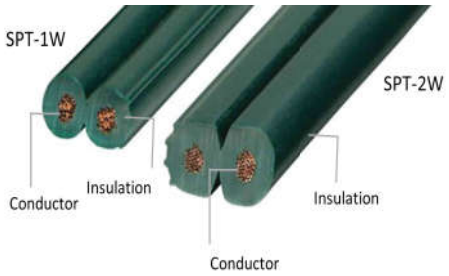
Polyvinyl chloride insulated flexible parallel type cords and cable for external interconnection of electronic equipment.
All the parts, materials and products conform to RoHS 2 Cd<5ppm, Pb<100ppm.SPT-1W and SPT-2 W rated 105 C
may be used as decorative cords for use in USA only.("W" means weather resistance and wire is of high grade for outdoor use)

Product Description

- Bare stranded copper conductor,
- Color-coded PVC insulation. (Lead Free)
- Rated temperature: 60°C ,75,°C,90°C, 105 °C, Rated voltage: 300 V
- Pass UL VW-1 & CUL flame test.

Construction





UL Style CUL Type	Conductor		Insulation Thickness	Number of Cores	Overall Diameter Approx	Standard Put-Up	
	(AWG)	No/mm	(mm)		(mm) W	(ft/coil)	(M/coil)
SPT-1W	20	26/0.160	0.76	2	2.50 x 4.80	1000	305
	18	41/0.160			2.70 x 5.40		
SPT-2W	18	41/0.160	1.14	2	3.60 x 7.10	1000	305
	16	65/0.160			3.80 x 7.60		
	14	252/0.102			4.50 x 9.00		

Noted : This specification is reference only .Please contact to request an official specification from sales office.

PVC insulated / PVC sheathed / 60,105 °C / 300V

Application

- Unshielded : for light-duty portable tools, mixer and vaccum cleaners.
- Shielded : for power supply cord of computers to eleminate EMI and RFI.

Product Description

Unshielded:

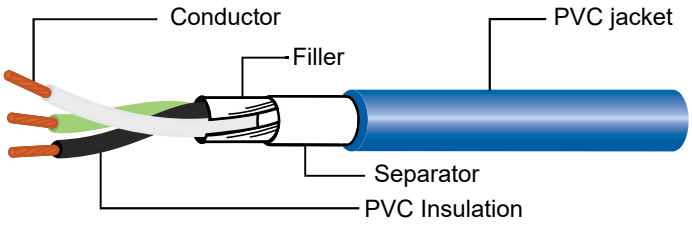
- Bare stranded copper conductor,
- Color-coded PVC insulation. (Lead Free)
- Cores twisted together with fillers.
- Separator over core.
- PVC jacketed water-resistant type. (Lead Free)
- Rated temperature: 60 °C or 105 °C, Rated voltage: 300 V
- Pass VW-1 flame test.

Shielded:

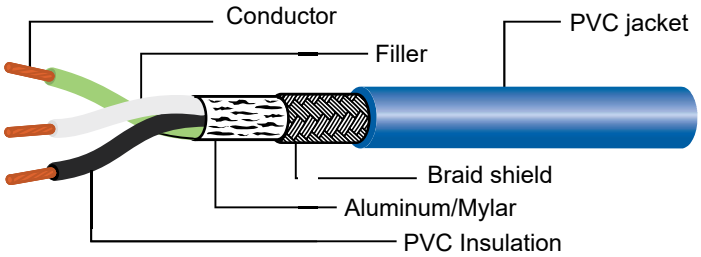
- Bare stranded copper conductor,
- Color-coded PVC insulation. (Lead Free)
- Cores twisted together with fillers.
- Aluminium mylar.
- Bare copper braid shield, 65-85% civerage,
- PVC jacketed. (Lead Free)
- Rated temperature: 60 °C or 105 °C,
- Rated voltage: 300 V
- Pass VW-1 flame test.

Construction

Unshielded



Shielded



UL Style & CSA Type	Conductor		Insulation Thickness	Braid Shield	Jacket Thickness	Overall Diameter (Approx)	Standard Put-Up	
	(AWG)	(No./mm)	(mm)	(No./mm)	(mm)	(mm)	(ft/coil)	(M/coil)
SVT (unshielded)	18x2C	41/0.160	0.38	-	0.760	5.90	1000	305
	18x3C	41/0.160		-	0.760	6.30	1000	305
SVT (shielded)	18x3C	41/0.160	0.38	16/8/0.120	0.760	7.20	1000	305
SVT (shielded)	18x2C	41/0.160	0.38	AL/Mylar	0.760	5.90	1000	305
	18x3C	41/0.160			0.760	6.30	1000	305

Noted : This specification is reference only .Please contact to request an official specification from sales office.

PVC insulated/PVC sheathed / 60,105 °C / 300V

Application

- Unshielded : for partable hand tools, washing machines, polishers, sanders, vibrators, shop lights, therqpeufic machines, dish washers, medical equipment, and office machines.
- Shielded : for power supply cord of computers to eleminate EMI and RFI.

Product Description

Unshielded:

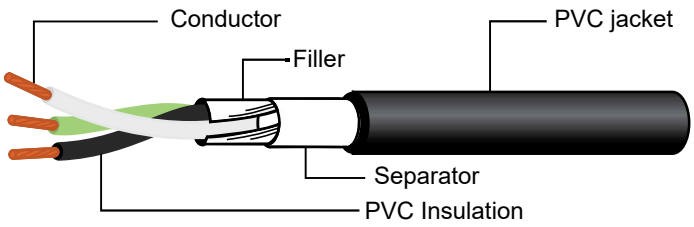
- Bare stranded copper conductor, 18-10 AWG
- Color-coded PVC insulation. (Lead Free)
- Cores twisted together with fillers.
- Separator over core.
- PVC jacketed water-resistant type. (Lead Free)
- Rated temperature: 60 °C or 105 °C, Rated voltage: 300 V
- Pass VW-1 flame test.

Shielded:

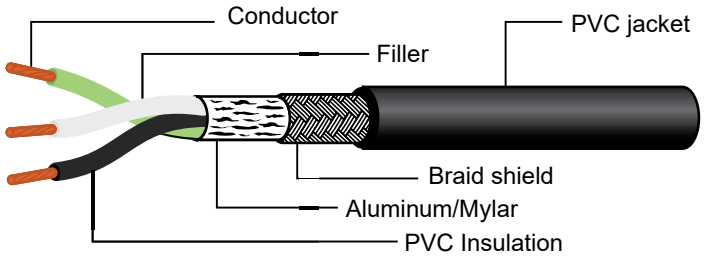
- Bare stranded copper conductor, 18-10 AWG
- Color-coded PVC insulation. (Lead Free)
- Cores twisted together with fillers.
- Mylar qppliovertwisted cores.
- Aluminium mylar.
- Bare copper braid shield, 85% civerage,
- Rated temperature: 60 °C or 105 °C,
- Rated voltage: 300 V
- Pass VW-1 flame test.
- PVC jacketed. (Lead Free)

Construction

Unshielded



Shielded



UL Style & CSA Type	Conductor		Insulation Thickness	Braid Shield	Jacket Thickness	Overall Diameter (Approx)	Standard Put-Up	
	(AWG)	(No./mm)	(mm)	(No./mm)	(mm)	(mm)	(ft/coil)	(M/coil)
SJT	18x3C	41/0.160	0.76	-	0.76	7.80	1000	305
	18x2C	41/0.160		-		7.30		
	16x3C	26/0.253		-		8.80		
	16x2C	26/0.253		-		8.10		
	14x3C	41/0.253		-		9.50		
	14x2C	41/0.253		-		8.80		
SJT (Shielded)	18x3C	41/0.160		24/7/0.127		8.60		
	16x3C	26/0.253		24/7/0.127		9.30		
	14x3C	41/0.253		24/7/0.160		10.30		
SJTW	18x3C	41/0.160		-		7.80		
	18x2C	41/0.160		-		7.30		
	16x3C	26/0.253		-		8.80		
	16x2C	26/0.253		-		8.10		
	14x3C	41/0.253		-		9.50		
	14x2C	41/0.253		-		8.80		
SJTOW	18x3C	41/0.160		-		7.80		
	18x2C	41/0.160		-		7.30		
	16x3C	26/0.253		-		8.80		
	16x2C	26/0.253		-		8.10		
	14x3C	41/0.253		-		9.50		
	14x2C	41/0.253		-		8.80		

Noted : This specification is reference only .Please contact to request an official specification from sales office.

PVC Sheathed / 105 °C / 300V

Application

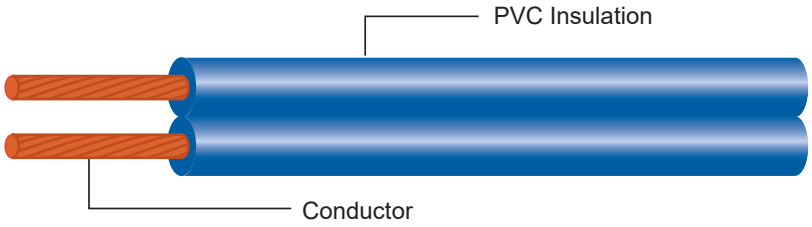
- For use as wiring in chrismas lighting sets.

Product Description

- Bare stranded copper conductor, 20-18 AWG
- Color-coded PVC insulation. (Lead Free)
- XTW: braidless parallel cords.
- CXTW Single Cord
- Pass VW-1 flame test.
- Rated temperature: 105 °C, 300 V

Construction

Parallel Type



UL Style & CSA Type	Conductor		Core No.	Insulation Thickness	Overall Diameter Approx	Standard Put-Up	
	(AWG)	(No./mm)		(mm)	(mm)	(ft/coil)	(M/coil)
UL XTW (Parallel)	20	26/0.160	2	0.76	2.50 x 5.00	2000	610
	18	41/0.160	2		2.80 x 5.60	2000	610
UL CXTW (Single)	22	17/0.160	1	0.76	2.30	2000	610
	20	26/0.160	1		2.50	2000	610
	18	41/0.160	1		2.80	2000	610

Noted : This specification is reference only .Please contact to request an official specification from sales office.

PVC insulated / PVC sheathed / 70,90 °C / 250,300,440,500V

Application

Power supply cord for indoor small electrical instruments

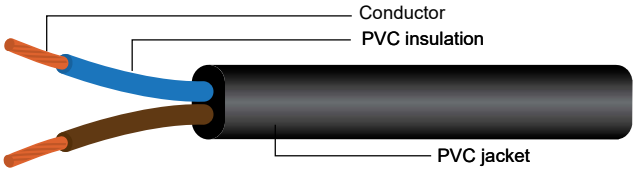
Standard approval of Thailand,Korea,Indonesia,EU 9 country

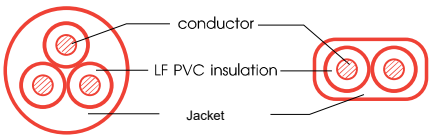
Product Description

Standard	VDE 0281,IEC 60227-5 ,HD 21.5 ,AS/NZS 3191,SNI 04-6629.5 ,TIS 11 PART 5 -2553
Conductor	Stranded bare copper
Temp. Rate	70,90 °C
Voltage Rate	300/500V,250/440V,250/250V
Insu. /Jacket	Heat resistant PVC which is RoHS Complied wire.

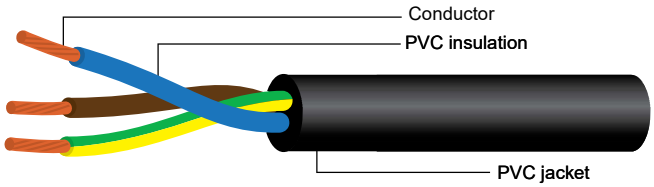
Construction

H03VVH2-F/LTSA-2F & GTSA-2F-H05VVH2-F





H03VV-F/LTSA-2, LTSA-3 & H05VV-F/GTSA-2, GTSA-3 H05V2V2-F



Cable Type		Size (mm^2)	Number of core	Insulation Thickness (mm)	Jacket Thickness (mm)	OVerall diameter Approx. (mm)	Rated		Standard Put-Up (M/Coil)
IEC	SAA						Voltage (V)	Temperature (°C)	
H03VVH2-F	LTSA-2F	0.50	2	0.50	0.80	3.60x5.70	300/300 250/250	70	250
		0.75	2	0.50	0.60	3.50x5.70			250
H05VVH2-F	GTSA-2F	0.75	2	0.60	0.80	4.00x6.30	300/500 250/440	70	250
		1.00	2	0.60	0.80	4.20x6.80			250
H03VV-F	LTSA	0.75	2	0.50	0.60	5.50	300/300 250/250	70	250
		0.75	3	0.50	0.60	6.60			250
H05VV-F	GTSA-2	0.75	2	0.60	0.80	6.60	300/500 250/440	70	250
		1.00	2	0.60	0.80	7.20			250
		1.50	2	0.70	0.80	8.00			250
		2.00	2	0.70	0.80	8.20			250
		0.50	2	0.80	1.10	9.70			100
	GTSA-3	0.75	3	0.60	0.80	7.20			250
		1.00	3	0.60	0.80	7.40			250
		1.50	3	0.70	0.90	8.50			250
		2.00	3	0.70	0.90	8.90			100
		2.50	3	0.80	1.10	10.30			100
H05V2V2-F	H05V2V2-F	0.75	3	0.60	0.80	7.20	300/500 250/440	90	250
		1.00	3	0.60	0.80	7.40			250
		1.50	3	0.70	0.90	8.50			250
*Please contact to request standard approval in detail									

Noted : This specification is reference only .Please contact to request an official specification from sales office.

PVC insulated / PVC sheathed / 60,75 °C / 300,600V

Application

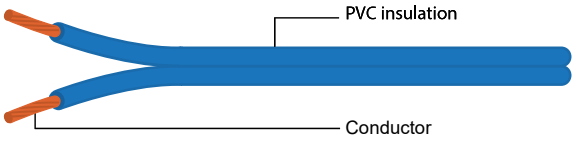
Power supply cord for indoor small electrical instruments

Product Description

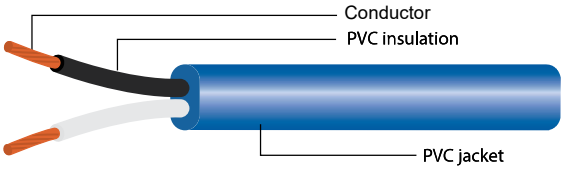
Standard	<PS>E JET
Conductor	Stranded bare copper
Temp. / Voltage Rate	VFF,VCTF,VCTFK : 60°C 300V
	VCT : 60 °C 600V
	HVFF,HVCTF,HVCTFK : 75 °C 300V
Insulation/Jacket	Heat resistant PVC which is RoHS Complied wire.

Construction

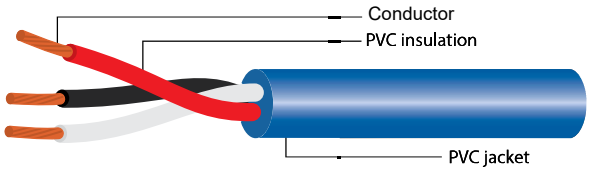
VFF/HVFF



VCTF/HVCTF



VCT/VCTF/HVCTF



Type	Conductor		Insulation Thickness	Jacket Thickness	Overall Diameter Approx	Conductor Resistance	Standard Put-Up
	Size	(No./mm)					
	(mm^2)		(mm)	(mm)	(mm)	(M/coil)	(M/coil)
VFF HVFF	0.5x2C	20/0.180	0.8	-	2.5x5.00	36.70	250
	0.75x2C	30/0.180		-	2.70x5.40	24.40	250
	1.25x2C	50/0.180		-	3.10x6.20	14.70	250
	2.00x2C	41/0.253		-	3.40x6.80	9.50	250
VCTF HVCTF	0.75x2C	30/0.180	0.6	1.0	6.70	25.10	250
	1.25x2C	50/0.180			7.40	15.10	250
	2.00x2C	37/0.260			8.00	9.79	250
	0.75x3C	30/0.180			7.00	25.10	250
	1.25x3C	50/0.180			7.80	15.10	250
	2.00x3C	41/0.253			8.50	9.79	250
	0.75x4C	30/0.180			7.60	25.1	250
	1.25x4C	50/0.180			8.50	15.10	250
	2.00x4C	30/0.260			9.30	9.70	250
VCTFK HVCTFK	0.75x2C	30/0.180	0.6	1.0	4.30x6.60	24.40	250
	1.25x2C	50/0.180			4.70x7.40	14.70	250
	2.00x2C	41/0.253			5.00x8.00	9.50	250
VCT	0.75x2C	30/0.180	0.8	1.7	8.90	24.40	250
	0.75x4C	30/0.180			10.00	24.40	250
	1.25x2C	50/0.180			9.60	14.70	250
	1.25x4C	50/0.180			11.10	14.70	250
	2.00x4C	41/0.253			12.00	9.55	250
	3.5x4C	65/0.253			13.70	5.95	250

Noted : This specification is reference only .Please contact to request an official specification from sales office.

PVC insulated / PVC sheathed / 60 °C 600V

Application

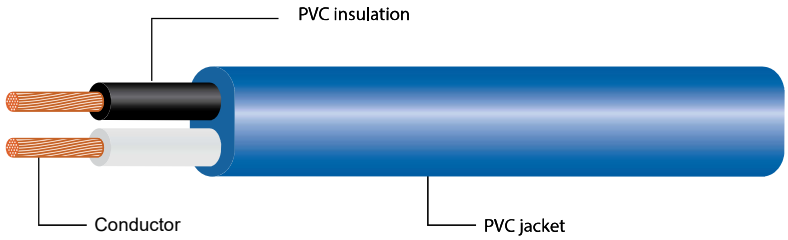
Power supply cord for indoor small electrical instruments

Product Description

Standard	<PS>E JET JIS C 3342
Conductor	Stranded bare copper
Temp. / Rate	60 °C
Voltage Rate	600V
Insulation/Jacket	Heat resistant PVC which is RoHS Complied wire.

Construction

VVF Flat Type



Wire Size (mm)	Wire Size (mm^2)	Conductor (No./mm)	NO. of core	Insulation Thickness (mm)	Jacket Thickness (mm)	Overall Diameter Approx (mm)	Maxium Conductor resistance (Ω- Km)	MinimuAMinimum Insulation resistance (Ω- Km)	Standard Put - Up (M/Coil)
1.0	-	1/1.000	2	0.80	1.5	5.60x8.20	22.8	50	100
1.2	-	1/1.200		0.80		5.80x8.60	15.8		
1.6	-	1/1.600		0.80		6.20x9.40	8.92		
2.0	-	1/2.000		0.80		6.60x10.50	5.65		
2.6	-	1/2.600		1.00		7.60x12.50	3.35		
3.2	-	1/3.200		1.20		8.60x14.50	2.21		
-	2.0	7/0.600		0.80		6.40x9.80	9.24		
-	3.5	7/0.800		0.80		7.00x11.00	5.20		
-	5.5	7/1.000		1.00		8.00x13.00	3.33		
-	8	7/1.200		1.20		9.00x15.00	2.31		
1.0	-	1/1.000	3	0.80		5.60x11.00	22.8		
1.2	-	1/1.200		0.80		5.80x11.50	15.8		
1.6	-	1/1.600		0.80		6.20x13.00	8.92		
2.0	-	1/2.000		0.80		6.60x14.00	5.56		
2.6	-	1/2.600		1.00		7.60x17.00	3.35		
3.2	-	1/3.200		1.20		8.60x20.00	2.21		
-	2.0	7/0.600		0.80		6.40x13.50	9.24		
-	3.5	7/0.800		0.80		7.00x15.00	5.20		
-	5.5	7/1.000		1.00		8.00x18.00	3.33		
-	8.0	7/1.200		1.20		9.00x21.00	2.31		

Noted : This specification is reference only .Please contact to request an official specification from sales office.

PVC insulated / 80°C

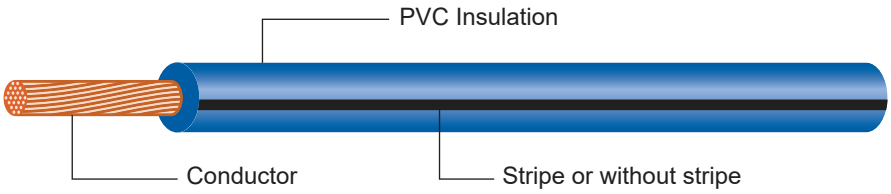
Application

Mainly used in low-voltage circuits for automobiles (vehicles and motorcycles).
A : Low-voltage wires for automobiles V : Polyvinyl Chloride

Product Description

Standard	Conformity to **JIS C3406 and JASO D611**
Conductor	Stranded bare copper 0.50 - 8.0 mm^2
Temp. Rate	80 °C
Insulation	Heat resistant PVC which is RoHS Complied wire.
	Color code with and without stripe

Construction



IATF 16949 : 2016

Nominal Size *1	Conductor (Annealed copper stranded conductors)			Insulation	Overall diameter		Conductor Resistance (20°C) Ω/Km	Current Limit (A) *2	Approx. Weight (Kg/Km)	Standard Put - Up (M/coil) *3
	Construction (No./mm)	Calculated area (mm^2)	Outer Diameter (mm)	Thickness (mm)	Standard (mm)	Max. (mm)				
AV										
0.5	7/0.32	0.56	1.00	0.60	2.30	2.40	32.70	13	5.36	500
0.85	11/0.32	0.88	1.20	0.60	2.50	2.60	20.80	18	7.19	500
1.25	16/0.32	1.28	1.50	0.60	2.80	2.90	14.30	24	9.71	500
2.0	26/0.32	2.09	1.90	0.60	3.25	3.40	8.81	33	14.48	500
3.0	41/0.32	3.29	2.40	0.70	3.95	4.10	5.99	45	22.20	500
5.0	65/0.32	5.22	3.00	0.80	4.75	4.90	3.52	58	33.91	500
8.0	50/0.45	7.95	3.70	0.90	5.65	5.80	2.32	75	50.15	500
AVF										
0.5f	20/0.18	0.50	0.90	0.60	2.30	2.40	3.27	13	5.15	500
0.75f	30/0.18	0.76	1.10	0.60	2.50	2.60	2.24	15	6.71	500
1.25f	50/0.18	1.27	1.50	0.60	2.80	2.90	1.47	24	9.65	500

* 1 The “f” in the nominal size column indicates a flexible conductor with a finer wire diameter.
* 2 The Current limit data is for conductor temperature of 80C (maximum allowable temperature) and an ambient temperature of 40C
* 3 Standard packing shapes shall be coils.

PVC insulated / 80°C

Application

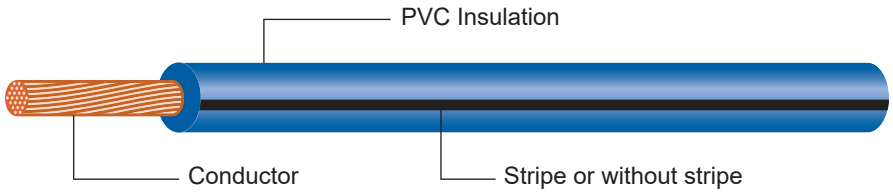
Mainly used in low-voltage circuits for automobiles (vehicles and motorcycles).

A : Low-voltage wires for automobiles V : Polyvinyl Chloride S : Thin Type F: Flexible conductor

Product Description

Standard	Conformity to **JASO D611**
Conductor	Strand and bare copper 0.30 - 5.0 mm^2
Temp. Rate	80 °C
Insulation	Heat resistant PVC which is RoHS Complied wire.
	Color code with or without stripe or ring mark
	Ring mark number : 0.5 mm^2 is one and 0.30 mm^2 is two

Construction



IATF 16949 : 2016

Nominal Size *1	Conductor (Annealed copper stranded conductors)			Insulation	Overall diameter		Conductor Resistance (20°C) Ω/Km	Current Limit (A) *2	Approx. Weight (Kg/Km)	Standard Put - Up (M/coil) *3
	Construction (No./mm)	Calculated area (mm^2)	Outer Diameter (mm)	Thickness (mm)	Standard (mm)	Max. (mm)				
AVS										
0.3	7/0.26	0.37	0.80		1.83	1.90	50.20	10	3.45	500
0.5	7/0.32	0.56	1.00		2.03	2.10	32.70	13	4.66	500
0.85	16/0.26	0.84	1.20		2.23	2.30	22.00	18	6.29	500
0.85	11/0.32	0.88	1.20		2.23	2.30	20.80	18	6.42	500
1.25	16/0.32	1.28	1.50		2.53	2.60	14.30	24	8.85	500
2.0	26/0.32	2.09	1.90		3.00	3.10	8.81	33	13.54	500
3.0	41/0.32	3.29	2.40		3.70	3.80	5.59	45	4.21	100
5.0	65/0.32	5.22	3.00		4.50	4.60	3.52	58	6.50	100
AVSF										
0.3 f	15/0.18	0.38	0.80		1.80	1.90	48.90	10	3.42	500
0.5 f	20/0.18	0.50	0.90		2.00	2.10	36.70	13	4.37	500
0.75 f	30/0.18	0.76	1.10		2.20	2.30	24.40	15	5.87	500
1.25 f	50/0.18	1.27	1.50		2.50	2.60	14.70	18	8.70	500
2.0 f	37/0.26	1.96	1.80		2.90	3.10	9.50	24	12.70	500

* 1 The “f” in the nominal size column indicates a flexible conductor with a finer wire diameter.
* 2 The Current limit data is for conductor temperature of 80C (maximum allowable temperature) and an ambient temperature of 40C
* 3 Standard packing shapes shall be coils.

PVC insulated / 80,100 °C

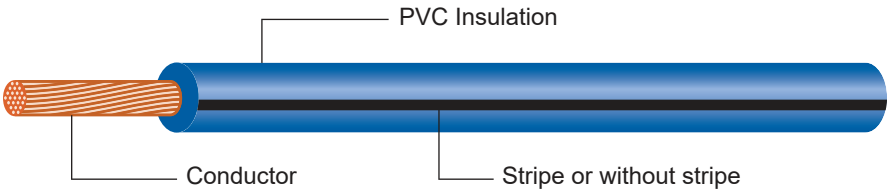
Application

Mainly used in low-voltage circuits for automobiles (vehicles and motorcycles).
"AVSSH is non closs-linking heat resistance wires which have heat resistance (100℃) as same as AVSSX"
A : Low-voltage wires for automobiles V : Polyvinyl Chloride SS : Very thin Type F: Flexible conductor H : Heat resistant

Product Description

Standard	Conformity to **JASO D611**
Conductor	Strand and bare copper 0.30 - 5.0 mm^2
Temp. Rate	AVSS and AVSS 80°C, AVSSH 100°C
Insulation	Heat resistant PVC which is RoHS Complied wire.
	Color code with or without stripe or ring mark
	Ring mark number : 0.5 mm^2 is one and 0.30 mm^2 is two , AVSSH is no ring mark

Construction



IATF 16949 : 2016

Nominal Size *1	Conductor (Annealed copper stranded conductors)			Insulation	Overall diameter		Conductor Resistance (20°C) Ω/Km	Current Limit (A) *2	Approx. Weight (Kg/Km)	Standard Put - Up (M/coil) *3
	Construction (No./mm)	Calculated area (mm^2)	Outer Diameter (mm)	Thickness (mm)	Standard (mm)	Max. (mm)				
AVSS										
0.3	7/0.26	0.37	0.80	0.30	1.40	1.50	50.20	10	2.67	500
0.5	7/0.32	0.56	1.00	0.30	1.63	1.70	32.70	13	3.78	500
0.85	19/0.24	0.85	1.20	0.30	1.83	1.90	21.70	18	5.36	500
0.85	7/0.4	0.87	1.20	0.30	1.83	1.90	20.80	18	5.43	500
1.25	19/0.29	1.25	1.50	0.30	2.13	2.20	14.90	24	7.61	500
2.0	19/0.37	2.04	1.90	0.40	2.73	2.80	9.00	33	12.43	500
AVSSF										
0.3f	19/0.16	0.38	0.80	0.30	1.40	1.50	48.80	10	2.66	500
0.5f	19/0.19	0.53	1.00	0.30	1.60	1.70	34.60	13	3.63	500
0.75f	19/0.23	0.78	1.20	0.30	1.80	1.90	23.60	15	5.02	500
1.25f	37/0.21	1.28	1.50	0.30	2.10	2.20	14.60	18	7.64	500
2.0f	37/0.26	1.96	1.80	0.40	2.60	2.70	9.50	24	11.71	500
AVSSH *4										
0.3f	19/0.16	0.38	0.80	0.30	1.40	1.50	48.80	10	2.66	500
0.5f	19/0.19	0.53	1.00	0.30	1.60	1.70	34.60	13	3.63	500
0.75f	19/0.23	0.78	1.20	0.30	1.80	1.90	23.60	15	5.02	500
1.25f	37/0.21	1.28	1.50	0.30	2.10	2.20	14.60	18	7.64	500

* 1 The “f” in the nominal size column indicates a flexible conductor with a finer wire diameter.
* 2 The Current limit data is for conductor temperature of 80C (maximum allowable temperature) and an ambient temperature of 40C
* 3 Standard packing shapes shall be coils
* 4 NO Marking

Cross-linked XLPVC insulated / 100°C

Application

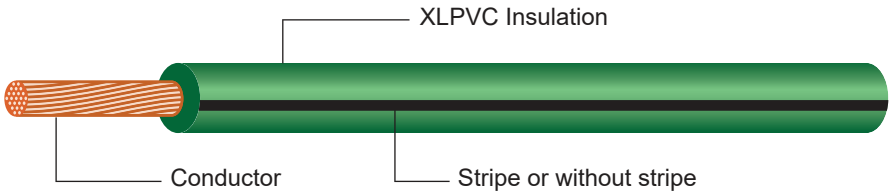
Mainly used in low-voltage circuits for automobiles (vehicles and motorcycles).

A : Low-voltage wires for automobiles V : Polyvinyl Chloride X : Cross-linked F: Flexible conductor

Product Description

Standard	Conformity to JASO D608
Conductor	Stranded bare copper 0.50 - 8.0 mm^2
Temp. Rate	100 °C
Insulation	Heat resistant XLPVC which is cross-linked by electron beam machine and stable thermally Color code with or without stripe or ring mark

Construction



IATF 16949 : 2016

Nominal Size *1	Conductor (Annealed copper stranded conductors)			Insulation	Overall diameter		Conductor Resistance (20°C) Ω/Km	Current limit (A) *2	Approx. Weight (Kg/Km)	Standard Put - Up (M/coil) *3
	Construction (No./mm)	Calculated area (mm^2)	Outer Diameter (mm)	Thickness (mm)	Standard (mm)	Max. (mm)				
AVX										
0.5	7/0.32	0.56	1.00	0.50	2.00	2.20	34.60	13	4.59	500
0.85	11/0.32	0.85	1.20	0.50	2.20	2.40	22.00	18	6.34	500
1.25	16/0.32	1.28	1.50	0.60	2.70	2.90	15.10	24	9.38	500
2.0	26/0.32	2.09	1.90	0.60	3.10	3.40	9.30	33	13.91	500
3.0	41/0.32	3.29	2.40	0.70	3.80	4.10	5.90	45	4.30	100
5.0	65/0.32	5.22	3.00	0.80	4.60	4.90	3.72	58	6.61	100
8.0	50/0.45	7.95	3.70	0.80	5.30	5.60	2.45	75	9.57	100
AVXF										
0.5f	20/0.18	0.50	0.90	0.50	2.00	2.20	38.60	13	4.37	500
0.75f	30/0.18	0.76	1.10	0.50	2.20	2.40	25.80	15	5.87	500
1.25f	50/0.18	1.27	1.50	0.60	2.70	2.90	15.50	24	9.32	500

* 1 The “f” in the nominal size column indicates a flexible conductor with a finer wire diameter.
* 2 The Current limit data is for conductor temperature of 80C (maximum allowable temperature) and an ambient temperature of 40C
* 3 Standard packing shapes shall be coils

Cross-linked XLPE insulated / 120°C

Application

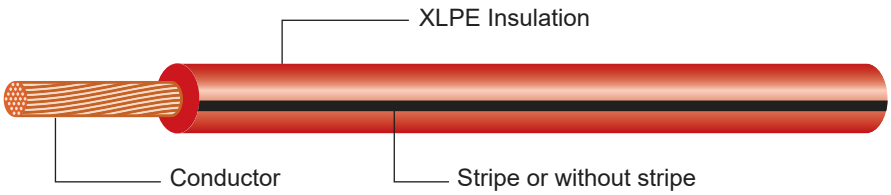
Mainly used in low-voltage circuits for automobiles (vehicles and motorcycles).

A : Low-voltage wires for automobiles E : Polyethylene X : Cross-linked F: Flexible conductor

Product Description

Standard	Conformity to **JASO D608**
Conductor	Stranded bare copper 0.50 - 8.0 mm^2
Temp. Rate	120 °C
Insulation	Heat resistant XLPE which is cross-linked by electron beam machine and stable thermally Color code with or without stripe or ring mark

Construction



IATF 16949 : 2016

Nominal Size *1	Conductor (Annealed copper stranded conductors)			Insulation	Overall diameter		Conductor Resistance (20°C) Ω/Km	Current Limit (A) *2	Approx. Weight (Kg/Km)	Standard Put - Up (M/coil) *3
	Construction (No./mm)	Calculated area (mm^2)	Outer Diameter (mm)	Thickness (mm)	Standard (mm)	Max. (mm)				
AEX										
0.5	7/0.32	0.56	1.00	0.50	2.00	2.20	35.60	14	4.59	500
0.85	11/0.32	0.85	1.20	0.50	2.20	2.40	22.00	20	6.34	500
1.25	16/0.32	1.28	1.50	0.60	2.70	2.90	15.10	26	9.38	500
2.0	26/0.32	2.09	1.90	0.60	3.10	3.40	9.30	40	13.91	500
3.0	41/0.32	3.29	2.40	0.70	3.80	4.10	5.90	50	4.30	100
5.0	65/0.32	5.22	3.00	0.80	4.60	4.90	3.72	70	6.61	100
8.0	50/0.45	7.95	3.70	0.80	5.30	5.60	2.45	90	9.57	100
AEXF										
0.5f	20/0.18	0.50	0.90	0.50	2.00	2.20	38.60	14	4.37	500
0.75f	30/0.18	0.76	1.10	0.50	2.20	2.40	25.80	16	5.87	500
1.25f	50/0.18	1.27	1.50	0.60	2.70	2.90	15.50	26	9.32	500
AESSX										
0.30f	19/0.160	0.38	0.80	0.30	1.40	1.50	48.80	10	5.08	1000
0.50f	19/0.190	0.54	0.95	0.30	1.60	1.70	34.60	13	3.25	500
0.75f	19/0.230	0.79	1.16	0.30	1.80	1.90	23.60	17	4.79	500
1.25f	37/0.210	1.28	1.47	0.30	2.10	2.20	14.60	23	7.03	500
2.00f	37/0.260	1.96	1.82	0.40	2.60	2.70	9.50	32	10.14	500
2.50f	50/0.260	2.65	2.12	0.37	2.90	3.00	7.45	35	2.66	100

* 1 The “f” in the nominal size column indicates a flexible conductor with a finer wire diameter.
* 2 The Current limit data is for conductor temperature of 80C (maximum allowable temperature) and an ambient temperature of 40C
* 3 Standard packing shapes shall be coils

PVC insulated / 80°C

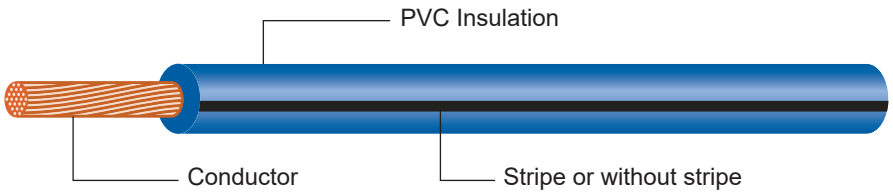
Application

Mainly used in low-voltage circuits for automobiles (vehicles and motorcycles).
Wires is thinner insulation than AVSS wires with compacted conductor to succeed in reducing wire diameter, and produce great effects of making wire harnesses smaller and lighter.
C : Compacted Strands A : Low-voltage wires for automobiles V : Polyvinyl Chloride
US : Ultra super thin I : ISO specification

Product Description

Standard	Conformity to JASO D611
Conductor	Compacted round stranded bare copper 0.22 - 1.25 mm^2
Temp. Rate	-40 ~ +80 °C
Insulation	Heat resistant PVC which is RoHS Complied wire.
	Color code with and without stripe

Construction



Type	Conductor		Insulation Thickness	Overall diameter		Conductor Resistance (20°C)
	Size	Contruction		Standard (mm)	Max. (mm)	
	(mm^2)	(No/mm)	(mm)			Ohm/Km
CAVS	0.30	7/Compacted Round Strand	0.35	1.40	1.50	52.20
	0.50	7/Compacted Round Strand		1.60	1.70	32.70
	0.85	11/Compacted Round Strand		1.80	1.90	20.80
	1.25	16/Compacted Round Strand		2.10	2.20	14.30
CAVUS	0.22	7/Compacted Round Strand	0.20	0.95	1.05	84.40
	0.30	7/Compacted Round Strand		1.10	1.20	52.20
	0.50	7/Compacted Round Strand		1.30	1.40	32.70
	0.85	11/Compacted Round Strand		1.50	1.60	20.80
	1.25	16/Compacted Round Strand		1.80	1.90	14.30
CIVUS	0.22	7/Compacted Round Strand	0.20	0.95	1.05	84.40
	0.35	7/Compacted Round Strand		1.10	1.20	54.40
	0.50	7/Compacted Round Strand		1.25	1.40	37.10
	0.75	11/Compacted Round Strand		1.40	1.60	24.70
	1.25	16/Compacted Round Strand		1.80	2.00	14.90

Noted : This specification is reference only .Please contact to request an official specification from sales office.

PVC/PE/XLPE/PU insulated / 100°C /125°C / 150°C

Application

Mainly used in low-voltage circuits for automobiles (vehicles and motorcycles).

Product Description

Standard Conformity to ISO 6722-2 , DIN 72551-6, GMW15626, BMW GS 95007-1, Ford WSK 1A348-A2, Fiat 91107/13

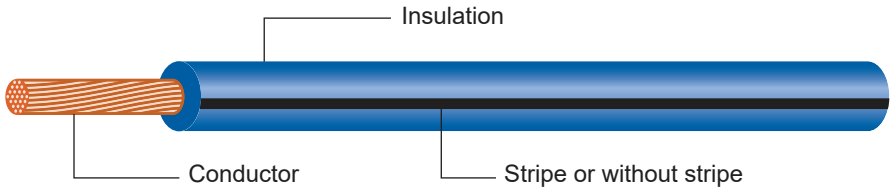
Conductor Stranded bare copper 0.13 - 16 mm^2

Temp. Rate and Insulation

Wire Type	Conductor Type	Insulation Material	Temperature Rate (°C)	
FLRY	A	PVC	-40	+100
FLR2Y	A	PE	-40	+100
FLR2X	A	XLPE	-40	+125
FLR21X	A	XLPE	-40	+125
FLR11Y	A	PU	-40	+125
FLR91X	A	XLPE	-40	+150

* Which are RoHS complied wire and color code with or without stripe

Construction



IATF 16949 : 2016

Style	Conductor		Nom. Insulation Thickness	Overall Diameter(mm)		Standard Put-Up	Conductor Resistance (20°C)
	Size (mm^2)	No/mm (Max)	(mm)	(min)	(max)	(Meter)	(ohm/km)
FLRY-A FLR2Y-A FLR2X(21X)-A FLR11Y-A FLR91X-A	0.13	7/0.16	0.25	0.95	1.05	3000	136.00
	0.22	7/0.21	0.25	1.10	1.20	500	84.80
	0.35	7/0.27	0.25	1.20	1.30	500	54.40
	0.50	19/0.19	0.28	1.40	1.60	500	37.10
	0.75	19/0.24	0.30	1.70	1.90	500	24.70
	1.00	19/0.27	0.30	1.90	2.10	500	18.50
	1.25	19/0.30	0.30	2.10	2.30	500	14.90
	1.50	19/0.33	0.30	2.20	2.40	500	12.70
	2.00	19/0.38	0.35	2.50	2.80	500	9.42
	2.50	37/0.28	0.35	2.70	3.00	500	7.60
	3.00	37/0.34	0.40	3.10	3.40	500	6.15
	4.00	37/0.38	0.40	3.40	3.70	500	4.71
	5.00	37/0.43	0.40	3.90	4.20	200	3.94
	6.00	37/0.45	0.40	4.00	4.30	200	3.14
	8.00	50/0.46	0.40	4.60	5.00	200	2.38
	10.00	63/0.46	0.60	5.30	6.00	200	1.82
	12.00	154/0.33	0.60	5.80	6.50	200	1.52
	16.00	105/0.46	0.65	6.40	7.20	200	1.16

Noted : This specification is reference only .Please contact to request an official specification from sales office.

PVC/PE/XLPE/PU insulated / 100°C /125°C / 150°C

Application

Mainly used in low-voltage circuits for automobiles (vehicles and motorcycles).

Product Description

Standard Conformity to ISO 6722-2 , DIN 72551-6, GMW15626, BMW GS 95007-1, Ford WSK 1A348-B2, Fiat 91107/13

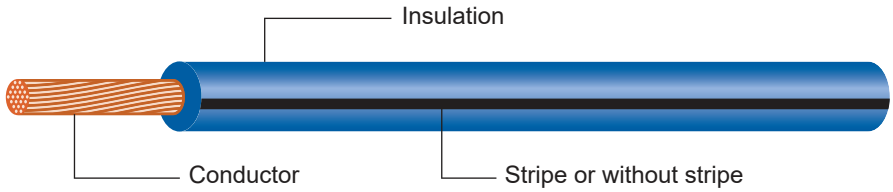
Conductor Stranded bare copper 0.35 - 16 mm^2

Temp. Rate and Insulation

Wire Type	Conductor Type	Insulation Material	Temperature Rate (°C)	
FLRY	B	PVC	-40	+100
FLR2Y	B	PE	-40	+100
FLR2X	B	XLPE	-40	+125
FLR21X	B	XLPE	-40	+125
FLR11Y	B	PU	-40	+125
FLR91X	B	XLPE	-40	+150

* Which are RoHS complied wire and color code with or without stripe

Construction



IATF 16949 : 2016

Style	Conductor		Nom. Insulation Thickness	Overall Diameter(mm)		Standard Put-Up	Conductor Resistance (20°C)
	Size (mm^2)	No/mm (Max)	(mm)	(min)	(max)	(Meter)	(ohm/km)
FLRY-B FLR2Y-B FLR2X(21X)-B FLR11Y-B FLR91X-B	0.35	12/0.21	0.25	1.20	1.40	500	54.40
	0.50	16/0.21	0.28	1.40	1.60	500	37.10
	0.75	24/0.21	0.30	1.70	1.90	500	24.70
	1.00	32/0.21	0.30	1.90	2.10	500	18.50
	1.50	30/0.26	0.30	2.20	2.40	500	12.70
	2.00	28/0.31	0.35	2.50	2.80	500	9.42
	2.50	50/0.26	0.35	2.70	3.00	500	7.60
	3.00	44/0.31	0.40	3.10	3.40	500	6.15
	4.00	56/0.31	0.40	3.40	3.70	500	4.71
	5.00	65/0.33	0.40	3.90	4.20	200	3.94
	6.00	84/0.31	0.40	4.00	4.30	200	3.14
	8.00	62/0.41	0.40	4.60	5.00	200	2.38
	10.00	80/0.41	0.60	5.30	6.00	200	1.82
	12.00	96/0.41	0.60	5.80	6.50	200	1.52
	16.00	126/0.41	0.65	6.40	7.20	200	1.16

Noted : This specification is reference only .Please contact to request an official specification from sales office.

PVC/PE/XLPE/PU insulated / 100°C /125°C / 150°C

Application

Mainly used in low-voltage circuits for automobiles (vehicles and motorcycles).

Product Description

Standard Conformity to ISO 6722-2 , DIN 72551-6, GMW15626, BMW GS 95007-1, Ford WSK 1A348-A2, Fiat 91107/13

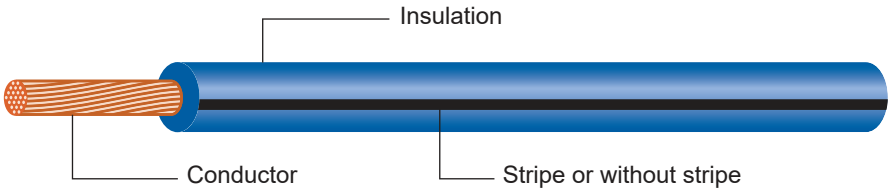
Conductor Stranded bare copper 0.50 - 16 mm^2

Temp. Rate and Insulation

Wire Type	Conductor Type	Insulation Material	Temperature Rate (°C)	
FLY	A	PVC	-40	+100
FL2Y	A	PE	-40	+100
FL2X	A	XLPE	-40	+125
FL21X	A	XLPE	-40	+125
FL11Y	A	PU	-40	+125
FL91X	A	XLPE	-40	+150

* Which are RoHS complied wire and color code with or without stripe

Construction



IATF 16949 : 2016

Style	Conductor		Nom. Insulation Thickness	Overall Diameter(mm)		Standard Put-Up	Conductor Resistance (20°C)
	Size (mm^2)	No/mm (Max)	(mm)	(min)	(max)	(Meter)	(ohm/km)
FLY-A FL2Y-A FL2X(21X)-A FL11Y-A FL91X-A	0.50	19/0.19	0.60	2.00	2.30	500	37.10
	0.75	19/0.24	0.60	2.20	2.50	500	24.70
	1.00	19/0.27	0.60	2.40	2.70	500	18.50
	1.25	19/0.30	0.60	2.40	2.95	500	14.90
	1.50	19/0.33	0.60	2.70	3.00	500	12.70
	2.00	19/0.38	0.60	3.00	3.30	500	9.42
	2.50	37/0.28	0.70	3.30	3.60	500	7.60
	3.00	37/0.34	0.70	3.80	4.10	500	6.15
	4.00	37/0.38	0.80	4.00	4.40	500	4.71
	5.00	37/0.43	0.80	4.50	4.90	200	3.94
	6.00	37/0.45	0.80	4.60	5.00	200	3.14
	8.00	98/0.33	0.80	5.00	5.90	200	2.38
	10.00	63/0.46	1.00	5.90	6.50	200	1.82
	12.00	154/0.33	1.00	6.60	7.40	200	1.52
	16.00	105/0.46	1.00	7.70	8.30	200	1.16

Noted : This specification is reference only .Please contact to request an official specification from sales office.

PVC/PE/XLPE/PU insulated / 100°C /125°C / 150°C

Application

Mainly used in low-voltage circuits for automobiles (vehicles and motorcycles).

Product Description

Standard Conformity to ISO 6722-2 , DIN 72551-6, GMW15626, BMW GS 95007-1, Ford WSK 1A348-B2, Fiat 91107/13

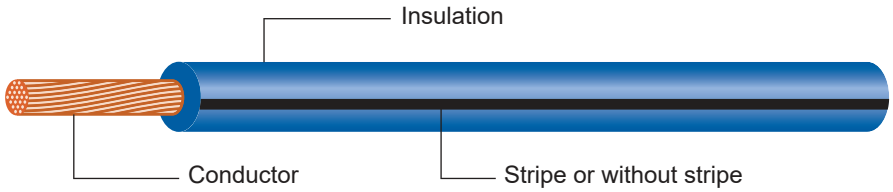
Conductor Stranded bare copper 0.50 - 16 mm^2

Temp. Rate and Insulation

Wire Type	Conductor Type	Insulation Material	Temperature Rate (°C)	
FLY	B	PVC	-40	+100
FL2Y	B	PE	-40	+100
FL2X	B	XLPE	-40	+125
FL21X	B	XLPE	-40	+125
FL11Y	B	PU	-40	+125
FL91X	B	XLPE	-40	+150

* Which are RoHS complied wire and color code with or without stripe

Construction



IATF 16949 : 2016

Style	Conductor		Nom. Insulation Thickness	Overall Diameter(mm)		Standard Put-Up	Conductor Resistance (20°C)
	Size (mm^2)	No/mm (Max)	(mm)	(min)	(max)	(Meter)	(ohm/km)
FLY-B FL2Y-B FL2X(21X)-B FL11Y-B FL91X-B	0.50	16/0.21	0.60	2.00	2.30	500	37.10
	0.75	24/0.21	0.60	2.20	2.50	500	24.70
	1.00	32/0.21	0.60	2.40	2.70	500	18.50
	1.50	30/0.26	0.60	2.70	3.00	500	12.70
	2.00	28/0.31	0.60	3.00	3.30	500	9.42
	2.50	50/0.26	0.70	3.30	3.60	500	7.60
	3.00	44/0.31	0.70	3.80	4.10	500	6.15
	4.00	56/0.31	0.80	4.00	4.40	500	4.71
	5.00	65/0.33	0.80	4.50	4.90	200	3.94
	6.00	84/0.31	0.80	4.60	5.00	200	3.14
	8.00	62/0.41	0.80	5.00	5.90	200	2.38
	10.00	80/0.41	1.00	5.90	6.50	200	1.82
	12.00	96/0.41	1.00	6.60	7.40	200	1.52
	16.00	126/0.41	1.00	7.70	8.30	200	1.16

Noted : This specification is reference only .Please contact to request an official specification from sales office.

ETFE,FEP,PFA insulated / 175°C,200°C,250°C

Application

Mainly used in low-voltage circuits for automobiles (vehicles and motorcycles).

Product Description

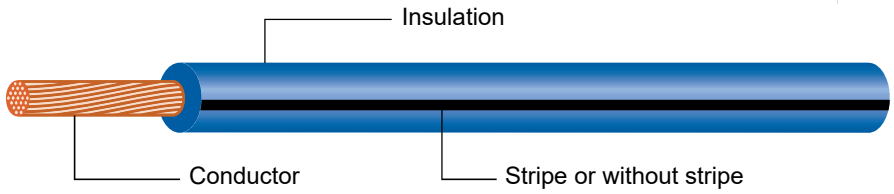
Standard Conformity to ISO 6722-2 , DIN 72551-6, GMW15626, BMW GS 95007-1, Ford WSK 1A348-A2, Fiat 91107/13

Conductor Stranded bare copper 0.13 - 16 mm^2

Temp. Rate and Insulation

Wire Type	Conductor Type	Insulation Material	Temperature Rate (°C)	
FLR6Y	A	FEP	-40	+200
FLR7Y	A	ETFE	-40	+175
FLR5Y	A	PFA	-40	+250

Construction



IATF 16949 : 2016

Style	Conductor		Nom. Insulation Thickness	Overall Diameter(mm)		Standard Put-Up	Conductor Resistance (20°C)
	Size (mm^2)	No/mm (Max)	(mm)	(min)	(max)	(Meter)	(ohm/km)
	0.13	7/0.16	0.25	0.95	1.05	3000	136.00
	0.22	7/0.21	0.25	1.10	1.20	500	84.80
	0.35	7/0.27	0.25	1.20	1.30	500	54.40
	0.50	19/0.19	0.28	1.40	1.60	500	37.10
	0.75	19/0.24	0.30	1.70	1.90	500	24.70
FLR6Y-A	1.00	19/0.27	0.30	1.90	2.10	500	18.50
	1.25	19/0.30	0.30	2.10	2.30	500	14.90
	1.50	19/0.33	0.30	2.20	2.40	500	12.70
FLR7Y-A	2.00	19/0.38	0.35	2.50	2.80	500	9.42
	2.50	37/0.28	0.35	2.70	3.00	500	7.60
	3.00	37/0.34	0.40	3.10	3.40	500	6.15
FLR5Y-A	4.00	37/0.38	0.40	3.40	3.70	500	4.71
	5.00	37/0.43	0.40	3.90	4.20	200	3.94
	6.00	37/0.45	0.40	4.00	4.30	200	3.14
	8.00	50/0.46	0.40	4.60	5.00	200	2.38
	10.00	63/0.46	0.60	5.30	6.00	200	1.82
	12.00	154/0.33	0.60	5.80	6.50	200	1.52
	16.00	105/0.46	0.65	6.40	7.20	200	1.16

Noted : This specification is reference only .Please contact to request an official specification from sales office.

ETFE,FEP,PFA insulated / 175°C,200°C,250°C

Application

Mainly used in low-voltage circuits for automobiles (vehicles and motorcycles).

Product Description

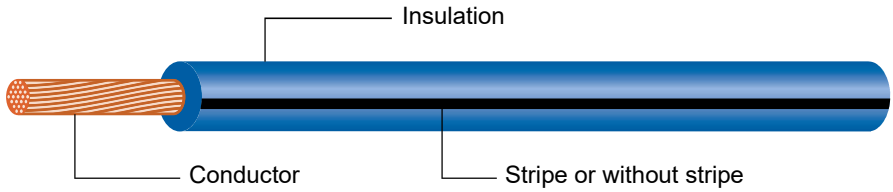
Standard Conformity to ISO 6722-2 , DIN 72551-6, GMW15626, BMW GS 95007-1, Ford WSK 1A348-B2, Fiat 91107/13

Conductor Stranded bare copper 0.35 - 16 mm^2

Temp. Rate and Insulation

Wire Type	Conductor Type	Insulation Material	Temperature Rate (°C)	
FLR6Y	B	FEP	-40	+200
FLR7Y	B	ETFE	-40	+175
FLR5Y	B	PFA	-40	+250

Construction



IATF 16949 : 2016

Style	Conductor		Nom. Insulation Thickness	Overall Diameter(mm)		Standard Put-Up	Conductor Resistance (20°C)
	Size (mm^2)	No/mm (Max)	(mm)	(min)	(max)	(Meter)	(ohm/km)
FLR6Y-B	0.35	12/0.21	0.25	1.20	1.40	500	54.40
	0.50	16/0.21	0.28	1.40	1.60	500	37.10
	0.75	24/0.21	0.30	1.70	1.90	500	24.70
	1.00	32/0.21	0.30	1.90	2.10	500	18.50
	1.50	30/0.26	0.30	2.20	2.40	500	12.70
	2.00	28/0.31	0.35	2.50	2.80	500	9.42
FLR7Y-B	2.50	50/0.26	0.35	2.70	3.00	500	7.60
	3.00	44/0.31	0.40	3.10	3.40	500	6.15
	4.00	56/0.31	0.40	3.40	3.70	500	4.71
FLR5Y-B	5.00	65/0.33	0.40	3.90	4.20	200	3.94
	6.00	84/0.31	0.40	4.00	4.30	200	3.14
	8.00	62/0.41	0.40	4.60	5.00	200	2.38
	10.00	80/0.41	0.60	5.30	6.00	200	1.82
	12.00	96/0.41	0.60	5.80	6.50	200	1.52
	16.00	126/0.41	0.65	6.40	7.20	200	1.16

Noted : This specification is reference only .Please contact to request an official specification from sales office.

Cross-linked XLPE insulated / 125°C

Application

Mainly used in low-voltage circuits for automobiles (vehicles and motorcycles) and in engine compartments where higher heat resistance is required according to SAE J-1128

Product Description

Standard Conformity to SAE J-1128
TXL wire is an extra-thin wall, stranded, single-conductor automotive primary wire. It is used primarily in Automotive applications where small diameter and minimal weight are desirable. It is rated to SAE J-1128, Ford (M1L-123A) and Chrysler (MS-8288) specifications.

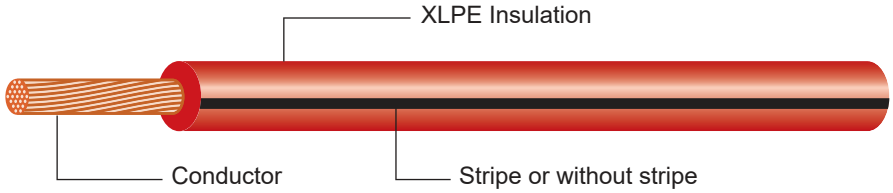
GXL wire is a thin wall, stranded, single-conductor automotive primary wire. It is used primarily in engine compartments where high heat resistance is required in accordance with SAE. It is rated to SAE J-1128, Ford (M1L-85B) and Chrysler (MS-8900) specifications.

Conductor Stranded bare copper or Tinned copper 22AWG - 8AWG

Temp. Rate -40 ~ +125 °C

Insulation Heat resistant XLPE which is cross-linked by electron beam machine and stable thermally
Color code with and without stripe

Construction



IATF 16949 : 2016

Style	Conductor		Insulation		Standard Put-up (M/Coil)
	Size (AWG)	Construction (No/mm)	Nominal Thickness (mm)	Nominal Diameter (mm)	
TXL	8	50/0.450	0.56	4.80	100
	10	19/0.57	0.50	4.00	100
	12	19/0.450	0.46	3.20	300
	14	19/0.360	0.40	2.60	300
	16	19/0.290	0.40	2.30	500
	18	19/0.240	0.40	2.00	500
	20	7/0.320	0.40	1.80	500
	22	7/0.260	0.40	1.60	500
GXL	8	50/0.450	0.94	5.60	100
	10	19/0.57	0.79	4.50	100
	12	19/0.450	0.66	3.60	300
	14	19/0.360	0.58	3.00	300
	16	19/0.290	0.58	2.70	500
	18	19/0.240	0.58	2.30	500
	20	7/0.320	0.58	2.20	500
	22	7/0.260	0.58	2.00	500

TXL Wire vs GXL Wire
As you can see, there is a lot of overlap between TXL and GXL wire. Both of these Automotive Primary Wires have a bare copper conductor, XLPE insulation, the same temperature rating and are rated to SAE, Ford and Chrysler standards. The major differences between TXL wire and GXL wire are the application, wall thickness and weight. TXL, as stated earlier, is used for applications where small diameter and minimal weight are desired. The extra thin wall makes the wire more lightweight than GXL. GXL, however, is used primarily in engine compartments where high heat resistance is required. GXL is slightly heavier in weight compared to TXL due to a slightly thicker wall

XLPE , Silicone insulated / 150 °C / 30 - 600V or 60 - 750Vdc

Application

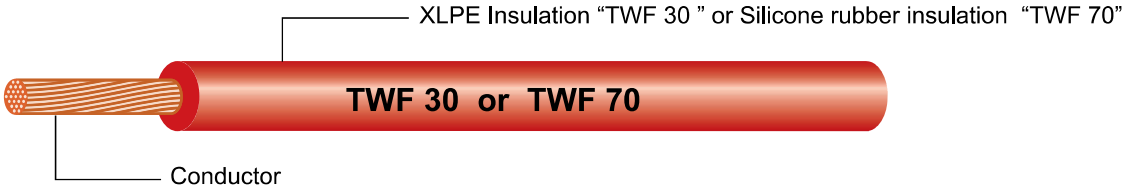
High-voltage lines are used in electric vehicles to transmit power between the charging port and the battery,the battery's interior, the battery and the engine, and other parts, as well as the battery energy storage equipment and other domains.

Product Description

The development of electric vehicle technology has resulted in an enlargement of high-voltage cables utilized as power cables; consequently, these cables must be extremely flexible to facilitate handling. The results of our flexibility simulation indicate that the structural integrity of a conductor has a lesser impact on cable flexibility than the elastic modulus of an insulator.

JASO D 624	:	Automobile Parts – High Voltage Cable
JIS C 3102	:	Electrical Annealed Copper Cable
JIS C 3005	:	Test Method of Cables with Rubber and Plastic Insulation
JASO D 618	:	Automobile Parts – Test Method for Low Voltage Cable

Construction



TYPE	Conductor			Insulation Thickness	Overall Diameter Approx	Max. Conductor Resistance at 20°C / Ω/Km
	SQMM	No/mm	Strand OD (mm)	(mm)	(mm)	
TWF30 XLPE Insulation	8	50/0.455	4.09	0.80	5.70	2.32
	12	78/0.455	5.11	1.00	7.10	1.52
	15	84/0.455	5.30	1.00	7.30	1.41
	20	124/0.455	6.44	1.00	8.50	0.95
	30	19/19/0.32	8.08	1.12	10.40	0.65
	40	19/26/0.32	9.45	1.12	11.70	0.47
TWF70 Silicone rubber Insulation	8	7/45/0.18	4.24	0.80	5.90	2.32
	10	19/21/0.18	4.78	1.00	6.80	1.88
	15	19/30/0.18	5.71	1.00	7.70	1.41
	20	19/42/0.18	6.75	1.00	8.80	0.95
	50	37/54/0.18	10.69	1.5	13.70	0.39
	70	19/69/0.253	12.48	1.5	15.50	0.27

Noted : This specification is reference only .Please contact to request an official specification from sales office.

TPE Insulated / TPE Sheathed / 105°C 1kV

Application

This cable specifies the requirements for electric vehicle cables rated up to 1000 Vac
and DC intended to be part of a cord set carried in the vehicle for connection to a charging station.
It is for permanent or temporary connection to Electric Vehicle Supply Equipment (EVSE).
TPE Insulation & Jacket 105 deg C, Voltage Rating up to 1000V

Standard

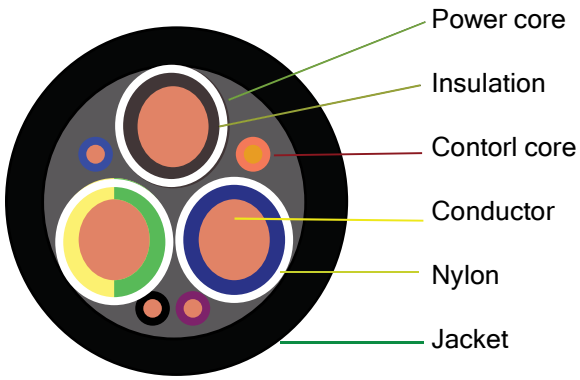
UL2263 UL Standard for Safety Electric Vehicle Cable

This standard covers sunlight and oil resistant electric vehicle cables
rated 300V, 600V and 1000V AC and DC, and 60 °C, 75 °C, 90 °C, or 105 °C cables
meeting the construction requirements for Electric Vehicle cables
designated EVE, EVJE as appropriate.
These cables may contain data, signal, communications and/or optical fiber cables

UL Approval number : E353814.

Construction

Conductor material	Annealed stranded copper (18 AWG to 2 AWG for power supply)
Power core size	4AWG/6AWG/9AWG/10AWG/11AWG/14AWG
Insulation material	TPE
Power core colour	Blue,Brown Green/Yellow
Control core size	22AWG
Insulation material	TPE
Control core colour	All colour (except power core colour)
Jacket materiaal	TPE
Jacket colour	Black or other colour (except clear)
Flame	VW-1 or FT1



Part number	Nominal size	Conductor		Insulation		Nylon		Shielded	Jacket	
		No./mm	Diameter (mm)	Thickness (mm)	Diameter (mm)	Thickness (mm)	Diameter (mm)	Myler	Thickness (mm)	Overall Diameter (mm)
Z150307C15	4 AWG x 2C	420/0.253	5.9	1.14	8.3	0.15	8.6	35 x 0.025	2.41	22.5 ± 0.20
	6 AWG x 1C	259/0.253	4.7	1.14	7.0	0.15	7.3			
	22 AWG x 4C	7/0.253	0.8	0.51	1.8	0.10	2.0			

Thai Wonderful produces EV charger designs with varying numbers of power cores, control cores and pilots cores for each cable design based on UL 2263 standards and customer requirements. Please contact the marketing department for further information about the design and size.

PVC insulated / Sheathed IEC52, IEC53 Flat type VKF

Application

Power supply cord for indoor small electrical instruments

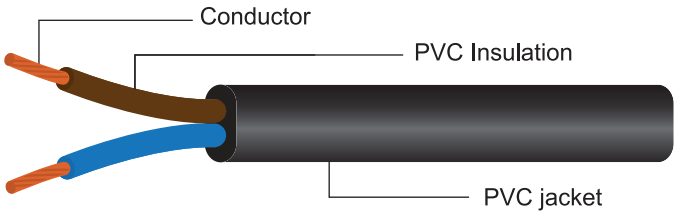
TIS 11-2553

Product Description

Standard	TIS 11 PART 3-2553 (THAILAND)
Conductor	Stranded bare copper
Temp. / Rate	70 °C
Voltage Rate	300,500V
Insulation/Jacket	Heat resistant PVC which is RoHS Complied wire.

*** SUPPORT POWER CORD TIS 166-2549**

Construction



60227 IEC 52 VKF

300/300 V 70°C FLEXIXBLE CONDUCTOR PVC INSULATED AND JACKET, FLAT TYPE

Reference standard : TIS 11 Part 5-2553, Table 7

Number of core	Nominal cross sectional area (mm^2)	Class of conductor	Insulation thickness nominal (mm)	Jacket thickness nominal (mm)	Overall diameter		Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ-km)	Continuous current rating in free air maximum (A)	Cable weight approx. (kg/km)	Standard length (m/coil)
					Minimum (mm)	Maximum (mm)					
2	0.5	5	0.5	0.6	3.0 x 4.9	3.7 x 5.9	39.0	0.012	10	28	100
	0.75	5	0.5	0.6	3.2 x 5.2	3.8 x 6.3	26.0	0.010	12	35	100

60227 IEC 53 VKF

300/500 V 70oC FLEXIXBLE CONDUCTOR PVC INSULATED AND JACKET, FLAT TYPE

Reference standard : TIS 11 Part 5-2553, Table 9

Number of core	Nominal cross sectional area (mm^2)	Class of conductor	Insulation thickness nominal (mm)	Jacket thickness nominal (mm)	Overall diameter		Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ-km)	Continuous current rating in free air maximum (A)	Cable weight approx. (kg/km)	Standard length (m/coil)
					Minimum (mm)	Maximum (mm)					
2	0.75	5	0.6	0.8	3.7 x 6.0	4.5 x 7.2	26.0	0.011	12	43	100
	1	5	0.6	0.8	3.9 x 6.2	4.7 x 7.5	19.5	19.5	15	50	100

PVC insulated / Sheathed IEC52, IEC53 Round type VCT,VCT-G

Application

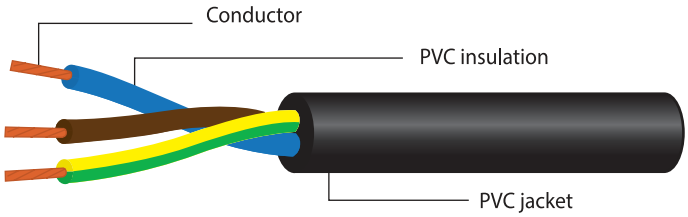
Power supply cord for indoor small electrical instruments

TIS 11-2553

Product Description

Standard TIS 11 PART 3-2553 (THAILAND)
Conductor Stranded bare copper
Temp. / Rate 70 °C
Voltage Rate 300,500V
Insulation/Jacket Heat resistant PVC which is RoHS Complied wire.
*** SUPPORT POWER CORD TIS 166-2549**

Construction



60227 IEC 52 VCT

300/300 V 70°C FLEXIXBLE CONDUCTOR PVC INSULATED AND JACKETED, ROUND TYPE
Reference standard : TIS 11 Part 5-2553, Table 7

Number of core	Nominal cross sectional area (mm^2)	Class of conductor	Insulation thickness nominal (mm)	Jacket thickness nominal (mm)	Overall diameter		Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ-km)	Continuous current rating in free air maximum (A)	Cable weight approx. (kg/km)	Standard length (m/coil)
					Minimum (mm)	Maximum (mm)					
2	0.5	5	0.5	0.6	4.6	5.9	39.0	0.012	10	40	100
	0.75	5	0.5	0.6	4.9	6.3	26.0	0.010	12	48	100
3	0.5	5	0.5	0.6	4.9	6.3	39.0	0.012	8	47	100
	0.75	5	0.5	0.6	5.2	6.7	26.0	0.010	10	58	100

60227 IEC 53 VCT or 60227 IEC 53 VCT-G

300/500 V 70°C FLEXIXBLE CONDUCTOR PVC INSULATED AND JACKETED, ROUND TYPE
Reference standard : TIS 11 Part 5-2553, Table 9

Number of core	Nominal cross sectional area (mm^2)	Class of conductor	Insulation thickness nominal (mm)	Jacket thickness nominal (mm)	Overall diameter		Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ-km)	Continuous current rating in free air maximum (A)	Cable weight approx. (kg/km)	Standard length (m/coil)
					Minimum (mm)	Maximum (mm)					
2	0.75	5	0.6	0.8	5.7	7.2	26.0	0.011	12	60	100
	1	5	0.6	0.8	5.9	7.5	19.5	0.010	14	70	100
	1.5	5	0.7	0.8	6.8	8.6	13.3	0.010	18	93	100
	2.5	5	0.8	1.0	8.4	10.6	7.98	0.009	25	140	100
3	0.75	5	0.6	0.8	6.0	7.6	26.0	0.011	10	70	100
	1	5	0.6	0.8	6.3	8.0	19.5	0.010	12	82	100
	1.5	5	0.7	0.9	7.4	9.4	13.3	0.010	16	115	100
	2.5	5	0.8	1.1	9.2	11.4	7.98	0.009	21	175	100
4	0.75	5	0.6	0.8	6.6	8.3	26.0	0.011	10	84	100
	1	5	0.6	0.9	7.1	9.0	19.5	0.010	12	105	100
	1.5	5	0.7	1.0	8.4	10.5	13.3	0.010	16	145	100
	2.5	5	0.8	1.1	10.1	12.5	7.98	0.009	21	215	100
5	0.75	5	0.6	0.9	7.4	9.3	26.0	0.011	10	105	100
	1	5	0.6	0.9	7.8	9.8	19.5	0.010	12	125	100
	1.5	5	0.7	1.1	9.3	11.6	13.3	0.010	16	175	100
	2.5	5	0.8	1.2	11.2	13.9	7.98	0.009	21	265	100

Noted : This specification is reference only .Please contact to request an official specification from sales office.

PVC insulated / Sheathed IEC01, IEC02, IEC05, IEC06 THW,IV

Application

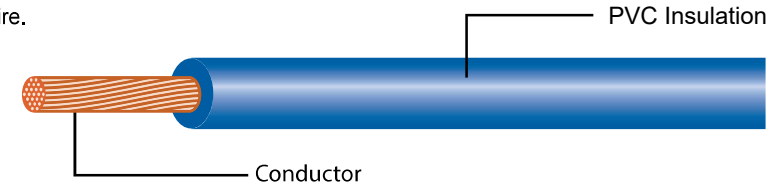
Power supply cord for indoor small electrical instruments

TIS 11-2553

Product Description

Standard TIS 11 PART 3-2553 (THAILAND)
Conductor Stranded bare copper
Temp. / Rate 70 °C
Voltage Rate 450,300,500,750V
Insulation/Jacket Heat resistant PVC which is RoHS Complied wire.

Construction



60227 IEC 01 THW

450/750 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED, SINGLE CORE
Reference standard : TIS 11 Part 3-2553, Table 1

Nominal cross sectional area (mm^2)	Class of conductor	Insulation thickness nominal (mm)	Overall diameter		Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ-km)	Continuous current rating in free air maximum (A)	Cable weight approx. (kg/km)	Standard length (m/coil)
			Minimum (mm)	Maximum (mm)					
1.5	1	0.7	2.6	3.2	12.1	0.011	21	21	100
1.5	2	0.7	2.7	3.3	12.1	0.010	21	22	100
2.5	1	0.8	3.2	3.9	7.41	0.010	29	32	100
2.5	2	0.8	3.3	4.0	7.41	0.009	29	35	100
4	1	0.8	3.6	4.4	4.61	0.0085	39	47	100
4	2	0.8	3.8	4.6	4.61	0.0077	39	50	100
6	1	0.8	4.1	5.0	3.08	0.0070	49	65	100
6	2	0.8	4.3	5.2	3.08	0.0065	49	70	100
10	1	1.0	5.3	6.4	1.83	0.0070	69	110	100
10	2	1.0	5.6	6.7	1.83	0.0065	69	120	100
16	2	1.0	6.4	7.8	1.15	0.0500	92	180	100

60227 IEC 02 THW (F)

450/750 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED, SINGLE CORE
Reference standard : TIS 11 Part 3-2553, Table 3

Nominal cross sectional area (mm^2)	Class of conductor	Insulation thickness nominal (mm)	Overall diameter		Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ-km)	Continuous current rating in free air maximum (A)	Cable weight approx. (kg/km)	Standard length (m/coil)
			Minimum (mm)	Maximum (mm)					
1.5	5	0.7	2.8	3.4	13.3	0.10	21	24	100
2.5	5	0.8	3.4	4.1	7.98	0.009	28	37	100
4	5	0.8	3.9	4.8	4.95	0.007	38	54	100
6	5	0.8	4.4	5.3	3.30	0.0060	48	75	100
10	5	1.0	5.7	6.8	1.91	0.0056	69	130	100
16	5	1.0	6.7	8.1	1.21	0.0046	92	185	100

60227 IEC 05 IV

450/500 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED, SINGLE CORE
Reference standard : TIS 11 Part 3-2553, Table 3

Nominal cross sectional area (mm^2)	Class of conductor	Insulation thickness nominal (mm)	Overall diameter		Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ-km)	Continuous current rating in free air maximum (A)	Cable weight approx. (kg/km)	Standard length (m/coil)
			Minimum (mm)	Maximum (mm)					
0.5	1	0.6	1.9	2.3	3.60	0.015	11	8.8	100
0.75	1	0.6	2.1	2.5	24.5	0.012	14	12.0	100
1	1	0.6	2.2	2.7	18.1	0.011	16	14.0	100

60227 IEC 06 (F)

300/500 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED, SINGLE CORE
Reference standard : TIS 11 Part 3-2553, Table 3

Nominal cross sectional area (mm^2)	Class of conductor	Insulation thickness nominal (mm)	Overall diameter		Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ-km)	Continuous current rating in free air maximum (A)	Cable weight approx. (kg/km)	Standard length (m/coil)
			Minimum (mm)	Maximum (mm)					
0.5	5	0.6	2.1	2.5	39.0	0.013	11	9	100
0.75	5	0.6	2.2	2.7	26.0	0.011	14	12	100
1	5	0.6	2.4	2.8	19.5	0.010	16	15	100

Noted : This specification is reference only .Please contact to request an official specification from sales office.

XLPE insulated, XLPE sheathed / 90°C ,0.6/1kV
THAI WONDERFUL **SOLAR CABLE**

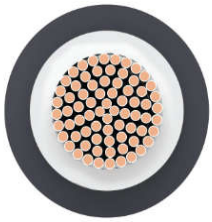
Application

THAI WONDERFUL SOLAR CABLE is the interconnection cable used in photovoltaic power generation. Solar cables interconnect solar panels and other electrical components of a photovoltaic system. Solar cables are designed to be UV resistant and weather resistant. They can be used within a large temperature range and are generally laid outside One common factor for most of the photovoltaic power systems is outdoor use, characterized by high temperatures and high UV radiation. Single-core cables with a maximum permissible DC voltage of 1.8 kV Umax. The phase to ground DC voltage rating must be Uo1.5kVDC and a temperature range from -40 °C to +90 °C ambient, 120 °C on the conductor for 25 year service life against thermal ageing. Ambient temperature and conductor temperature is derived from the Arrhenius law for ageing of polymers - ageing of polymers doubles for every 10 °C rise.DC string cables must be class II double insulated to protect against short circuits and ground faults

Product Description

Standard	**TUV H1Z2Z2-K EN 50618 / IEC 62930**
Conductor	Strand tinned copper DIN VDE 0295 ,IEC 60228 ,HD383 (Class 5)
Temp. Rated	Ambient > 25 Years -40 ~ +90 °C
	Operation -40 ~ +120 °C
Voltage Rated	0.6/1kV(AC) 0.9 /1.5 kV (DC)
Insulation	Cross-linked Polyethylene (XLPE) Insulated Heat-resistant ,halogen free and retardant compound.
Jacket	Cross-linked Polyethylene (XLPE) Insulated Heat ,UV and LSZH resistant and retardant compound.
	* Electron beam cross link both insulation and Jacket

Construction



Material standard

EN 50618 - RoHS 2011/65/UE
UV-Resistance according to EN60811-501
Ozone resistant according to EN 60811-403
Flame retardant according to EN 60332-1-2
Halogen free according to EN 50267-2-1 - EN 60684-2

Conductor Cross-section (mm^2) nominal	Insulation Thickness (mm)	Jacket Thickness (mm)	Overall Diameter Approx. (mm)	Conductor Resistance at 20°c (Ohm/km)	Current Limit (A)
1.50	0.70	0.80	5.40	13.70	30.00
2.50	0.70	0.80	5.90	8.21	41.00
4.00	0.70	0.80	6.60	5.09	55.00
6.00	0.70	0.80	7.40	3.39	70.00
10.00	0.70	0.80	8.80	1.95	98.00
16.00	0.70	0.90	10.10	1.24	132.00

Noted : This specification is reference only .Please contact to request an official specification from sales office.

XLPE insulated / XLPE sheathed / 90,150°C / 0.6,1.0,2.0kV
THAI WONDERFUL **UL SOLAR CABLE**

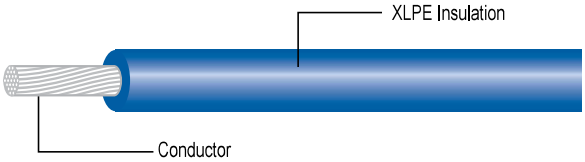
Application

THAI WONDERFUL SOLAR CABLE is the interconnection cable used in photovoltaic power generation. Solar cables interconnect solar panels and other electrical components of a photovoltaic system. Solar cables are designed to be UV resistant and weather resistant. They can be used within a large temperature range and are generally laid outside One common factor for most of the photovoltaic power systems is outdoor use, characterized by high temperatures and high UV radiation. PV WIRE for interconnection wiring of grounded and ungrounded photovoltaic power systems and described in Article 690,Part IV, Wire Methods, and other applicable parts of the National Electrical Code (NEC), NFPA 70. All the parts, materials and products conform to RoHS 2 and REACH regulation.

Product Description

Standard	UL 4703
Approval No.	E340730
Rated	**90, 105, 125, or 150°C dry and 90°C wet, 600, 1000, or 2000 volts**
Insulation	Cross-linked Polyethylene (XLPE) Insulated Heat-resistant ,halogen free and retardant compound. THERMOSET MATERIALS : XL (QMTT2)(THW-2 STANDARD, REF UL 83)
Jacket	Cross-linked Polyethylene (XLPE) Insulated Heat ,UV and LSZH resistant and retardant compound. * Electron beam cross link both insulation and Jacket

Construction



TYPE	Conductor		Insulation Thickness	Overall Diameter Approx	Max.Conductor Resistance at 20°C / Ω/Km
	AWG	No/mm	(mm)	(mm)	
PV cable UL4703 XLPE INSULATION	18	16/0.253	1.73	5.00	21.80
	16	26/0.253	1.73	5.30	13.70
	14	41/0.253	1.73	5.70	8.62
	12	65/0.253	1.73	6.20	5.43
	10	105/0.253	1.73	7.30	3.41
	8	168/0.253	1.73	8.20	2.14

TYPE	Conductor		Insulation Thickness	Insulation Diameter Approx	Jacket Thickness	Overall Diameter Approx	Max. Conductor Resistance at 20°C / Ω/Km
	AWG	No/mm	(mm)	(mm)	(mm)	(mm)	
PV cable UL4703 XLPE INSULATION XLPE JACKET	18	16/0.253	1.14	3.6	0.76	5.30	21.80
	16	26/0.253	1.14	3.9	0.76	5.60	13.70
	14	41/0.253	1.14	4.3	0.76	6.00	8.62
	12	65/0.253	1.14	4.9	0.76	6.60	5.43
	10	105/0.253	1.14	5.8	0.76	7.50	3.41
	8	168/0.253	1.39	7.2	0.76	8.90	2.14

Noted : This specification is reference only .Please contact to request an official specification from sales office.

PVC Insulation with/without Nylon/ 60 °C, 75 °C /600V

Application

Internal wiring of electrical, electronic and medical equipment.

Product Description

Standard	UL, CUL
Conductor	Copper conductors may be tinned, silver or nickel plated, heat bonded or overcoated.Shall be solid or stranded.
Flammability	UL VW-1, CUL FT1
Insulation	Heat resistant PVC which is RoHS Complied wire.
Usage	Uniform thickness of wire to ensure easy stripping and cutting Resistant to acids, oils, alkalines, moisyure and fungus

THHN — Indicates a single conductor having flame-retardant and heat-resistant PVC insulation with a jacket of extruded nylon. The wire is rated 90°C dry only.

THWN — Indicates a single conductor having flame-retardant, moisture- and heat-resistant PVC insulation with a jacket of extruded nylon.The wire is rated 75°C wet or dry.

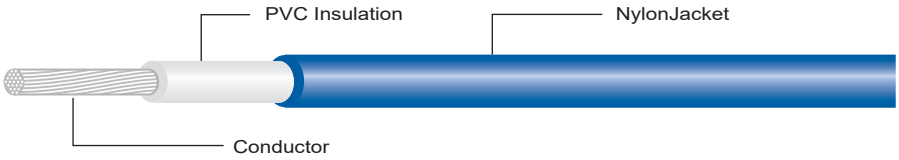
THWN-2 — Same as THWN except that the wire is rated 90°C wet or dry.

THW — Indicates a single conductor having flame-retardant, moisture- and heat-resistant PVC insulation. The wire is rated 75°C wet or dry.

THHW — Indicates a single conductor having flame-retardant, moisture- and heat-resistant PVC insulation. The wire is rated 90°C dry and 75°C wet.

TW —Indicates a single-conductor, thermoplastic-insulated construction having ratings of 60°C wet or dry.

Construction



UL Style CUL Type	Conductor		Insulation Thickness (Minimum Average)	Insulation Diameter Approx	Nylon Jacket Thickness	Overall Diameter Approx	Max. Conductor Resistance at 20°C / Ω/Km
	(AWG)	No/mm	(mm)	(mm)	(mm)	(mm)	
THHN THWN THWN2 (Stranded)	14	41/0.253	0.38	2.70	0.13	2.95	8.62
	12	65/0.253	0.38	3.10	0.13	3.35	5.43
	10	105/0.253	0.51	4.30	0.13	4.55	3.41
	8	165/0.253	0.76	5.80	0.15	6.10	2.14
	6	266/0.253	0.76	7.00	0.15	7.30	1.35
	4	420/0.253	1.02	8.90	0.18	9.26	0.85

UL Style CUL Type	Conductor		Insulation Thickness (Minimum Average)	Overall Diameter Approx	Max. Conductor Resistance at 20°C / Ω/Km
	(AWG)	No/mm	(mm)	(mm)	
THHW THW TW (Stranded)	14	41/0.253	0.76	3.60	8.62
	12	65/0.253	0.76	4.10	5.43
	10	105/0.253	0.76	5.20	3.41
	8	165/0.253	1.14	6.80	2.14
	6	266/0.253	1.52	8.80	1.35
	4	420/0.253	1.52	10.20	0.85

THAI WONDERFUL WIRE CABLE

Power Cord
PRODUCTS

WTP-003B
WTP-003R

SVT , SJT

18AWGX3C - 10A, 125V(250V)

16AWGX3C - 13A, 125V(250V)

Applicable country : North America

H05VV-F

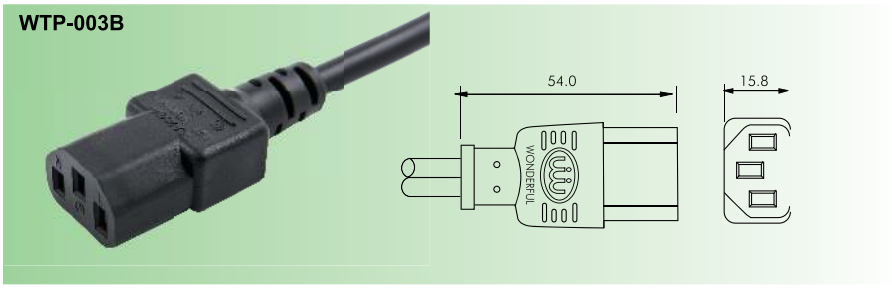
0.75 SQMM X 3C - 7A, 250V

1.0 SQMM X 3C - 10A, 250V

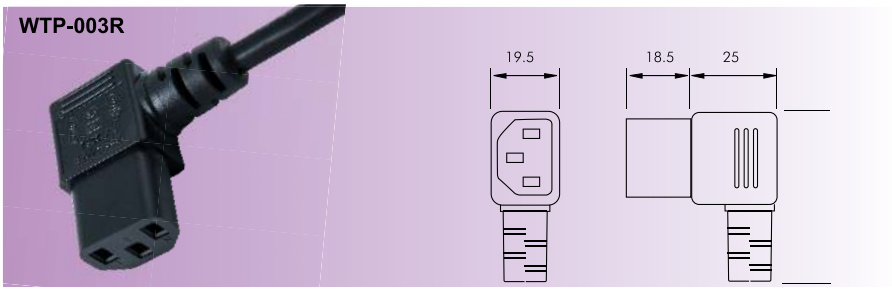
1.5 SQMM X 3C - 15A, 250V

Applicable country : international style , European Countries

IEC 60320 C13

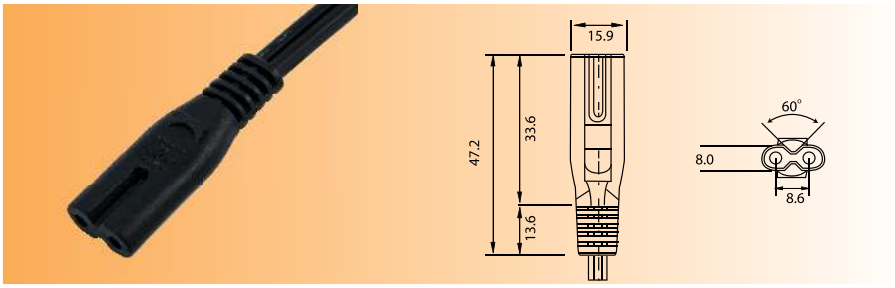


IEC 60320 C13



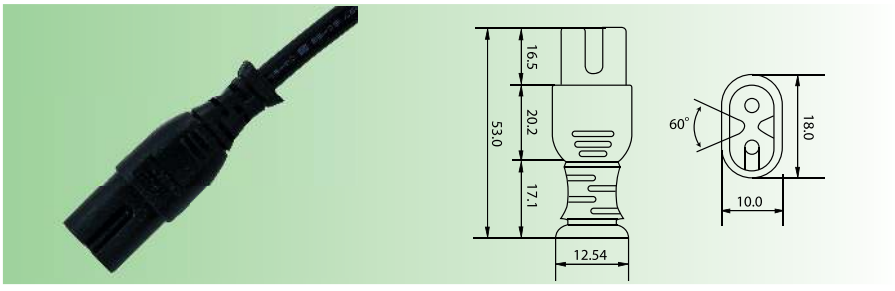
WTP-007

SPT-1	18AWG x 2C - 2.5A, 125V
SPT-2	18AWG x 2C - 2.5A, 125V
NISPT-1	18AWG x 2C - 2.5A, 125V
NISPT-2	18AWG x 2C - 2.5A, 125V



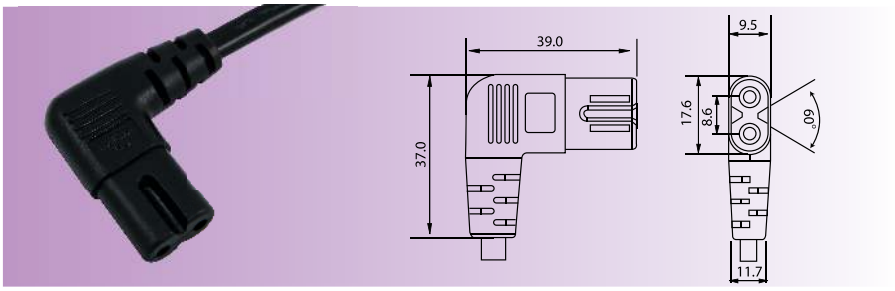
WP-007

H05VVH2-F	0.75 SQMM x 2C 125V, 250V
H03VVH2-F	0.75 SQMM x 2C 125V, 250V



WTP-007R

H03VVH2-F	0.75 SQMM X 2C - 2.5A, 125V, 250V
H05VVH2-F	0.75 SQMM X 2C - 2.5A, 125V, 250V



Noted : This specification is reference only .Please contact to request an official specification from sales office.

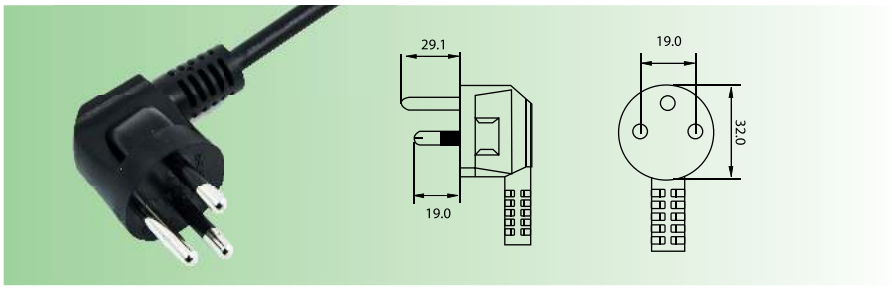
WP 207

TIS 166-2549

H05VV-F 0.75 SQMM X 3C - 6A, 250V
1.00 SQMM X 3C - 10A, 250V
1.50 SQMM X 3C - 16A, 250V

TIS 11 PART 5 - 2553 60227 IEC53 300/500V TYPE 5

TYPE O



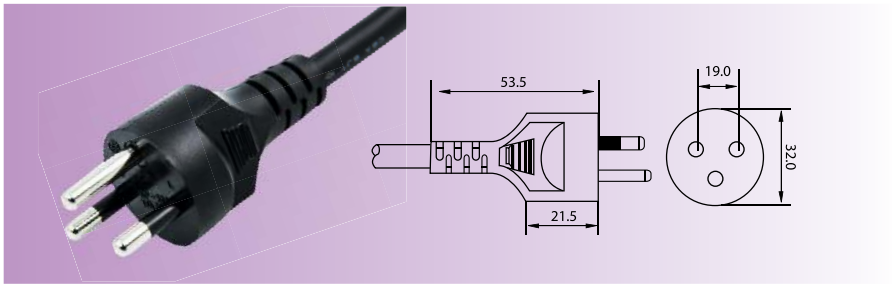
WP 208

TIS 166-2549

H05VV-F 0.75 SQMM X 3C - 6A, 250V
1.00 SQMM X 3C - 10A, 250V
1.50 SQMM X 3C - 16A, 250V

TIS 11 PART 5 - 2553 60227 IEC53 300/500V TYPE 5

TYPE O



WP 209
WP 209R

TIS 166-2549

H03VVH2-F 0.50 SQMM X 2C - 2.5A, 250V
0.75 SQMM X 2C - 6A, 250V

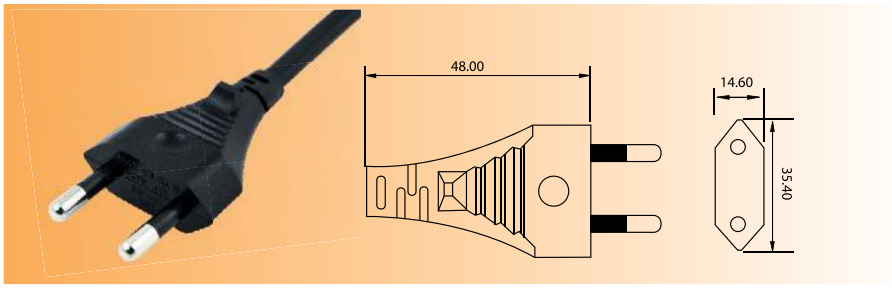
TIS 11 PART 5 - 2553 60227 IEC52 300/500V TYPE 5

H05VVH2-F 0.75 SQMM X 2C - 6A, 250V
1.00 SQMM X 2C - 10A, 250V
1.50 SQMM X 2C - 16A, 250V

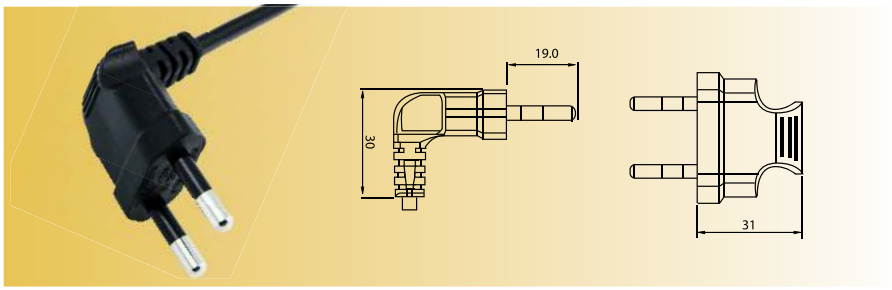
H05VV-F 0.75 SQMM X 2C - 6A, 250V
1.00 SQMM X 2C - 10A, 250V
1.50 SQMM X 2C - 16A, 250V

TIS 11 PART 5 - 2553 60227 IEC53 300/500V TYPE 5

WP 209



WP 209R



Applicable Country : THAILAND

Noted : This specification is reference only .Please contact to request an official specification from sales office.

WP-001 (non-polarized plug)

SPT-1 , SPT-2

18AWGX2C - 10A, 125V

WP-001P (polarized plug)

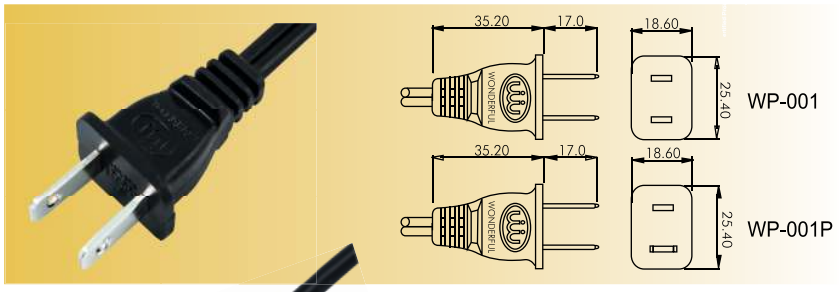
SPT-1 , SPT-2,NISPT-2,HPN

18AWGX2C - 10A, 125V

16AWGX2C - 13A, 125V

NISPT-1 18AWGX2C - 10A, 125V

NEMA 1-15P / TYPE A

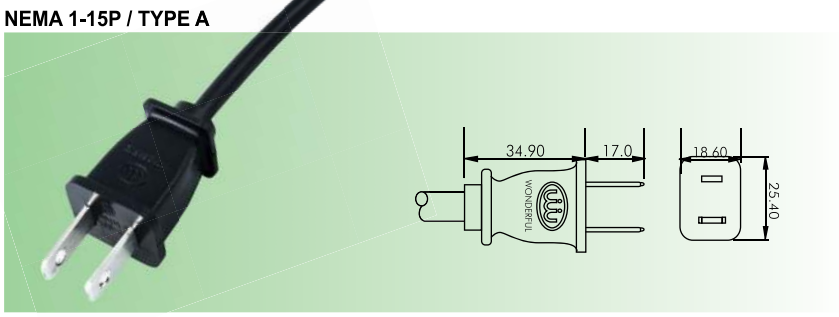


WP-002

SVT , SJT 18AWGX2C - 10A, 125V

16AWGX2C - 13A, 125V

NEMA 1-15P / TYPE A



WTP-001B

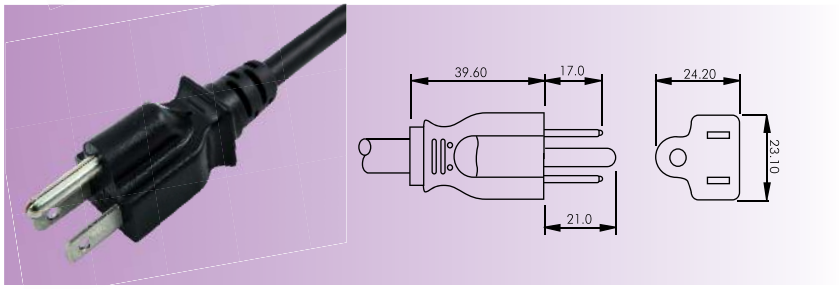
SVT,SJT,SJTW,SPT-3

18AWGX3C - 10A, 125V

16AWGX3C - 13A, 125V

14AWGX3C - 15A, 125V

NEMA 5-15P / TYPE B / C13



WTP-001R

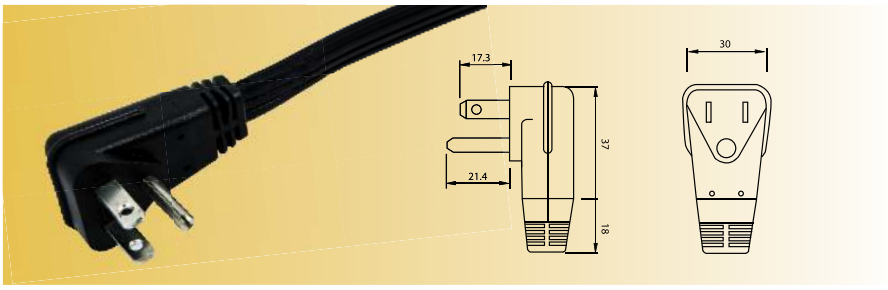
SPT-3 , SVT * , SJT *

18AWGX3C - 10A, 125V

16AWGX3C - 13A, 125V

14AWGX3C - 15A, 125V

NEMA 5-15P / TYPE A



WTP-004

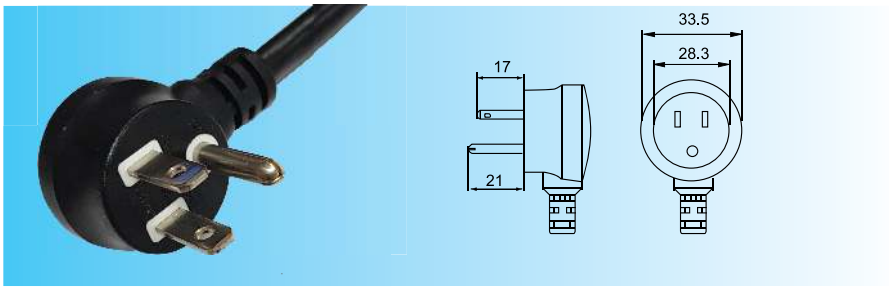
SVT 18AWGX3C - 10A, 125V

SJT 18AWGX3C - 10A, 125V

16AWGX3C - 13A, 125V

14AWGX3C - 15A, 125V

NEMA 5-15P / TYPE A



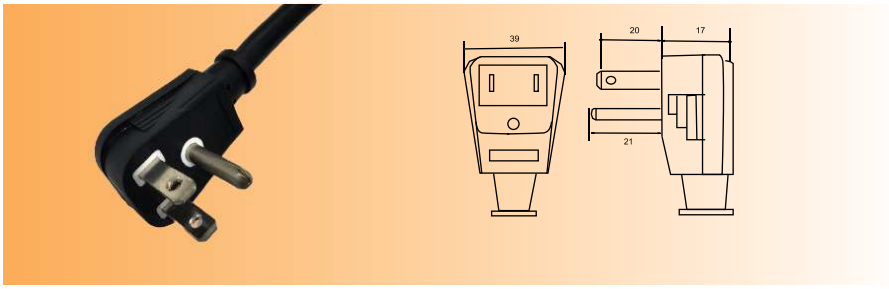
WTP-005

SJTW 18AWGX3C - 10A, 125V

16AWGX3C - 13A, 125V

ETL Intertek

ETL CONTROL NUMBER : 5016620



Noted : This specification is reference only .Please contact to request an official specification from sales office.

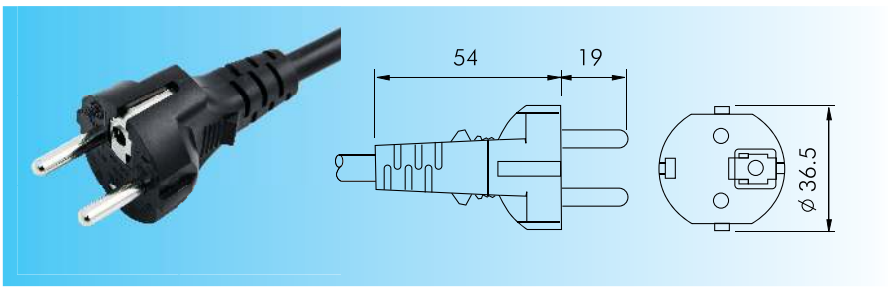
WP-203

16A 250V

H05VV-F 0.75 SQMM X 3C
1.00 SQMM X 3C

Applicable country :
European Countries
Korea , Indonesia

TYPE E



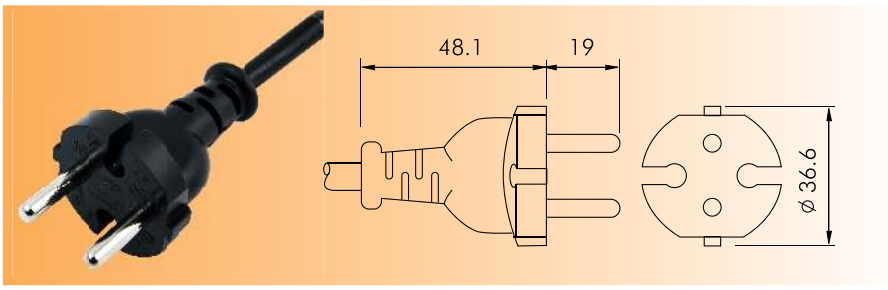
WP-204

16A 250V

H05VV-F 0.75 SQMM X 2C
1.00 SQMM X 2C

Applicable Country :
European Countries
Indonesia

TYPE F



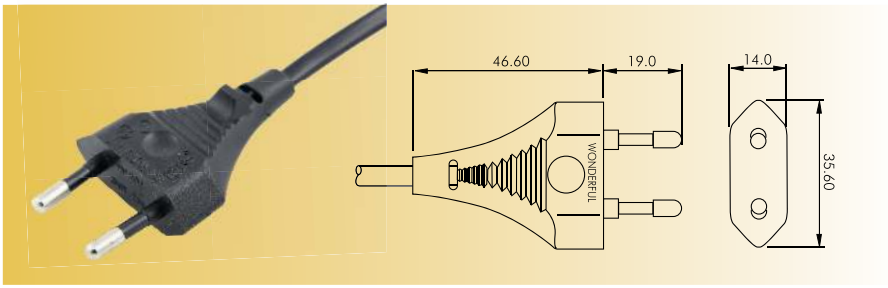
WP-202

2.5A 250V

H03VVH2-F 0.75 SQMM X 2C
H05VVH2-F 0.75 SQMM X 2C
(SNI ONLY)

Applicable country :
European Countries
Indonesia

TYPE C



EN 50075 , CEE-7 , IEC 60884-1

WP-110

Applicable country : Korea

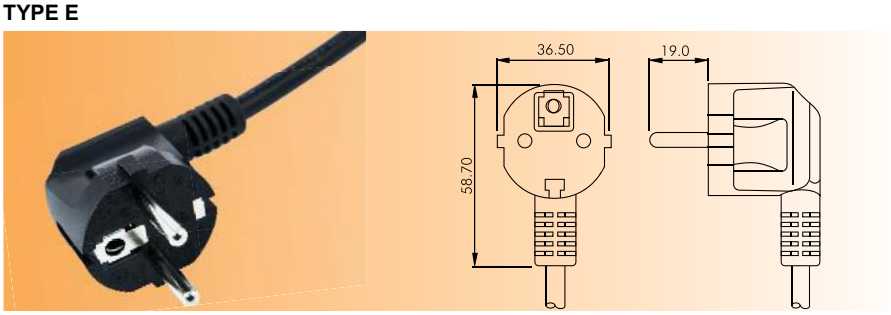
WP-201

16A 250 V

H03VV-F 0.75 SQMM X 3C
H05VV-F 0.75 SQMM X 3C
1.00 SQMM X 3C
1.50 SQMM X 3C

Applicable country :
European Countries,
Korea , Indonesia

TYPE E



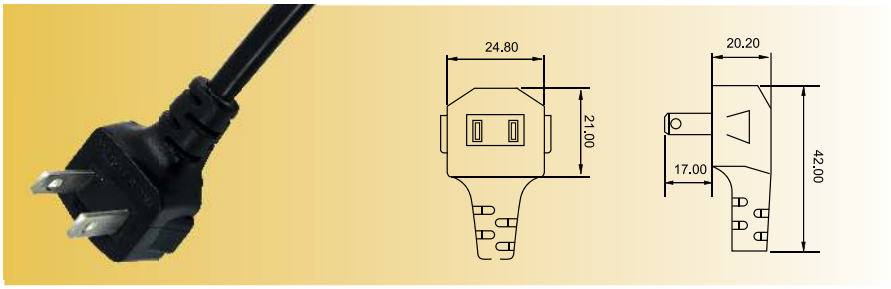
Noted : This specification is reference only .Please contact to request an official specification from sales office.

WT-109
(HOOD)

VFF	0.50 SQMM X 2C - 2..5A ,125V
	0.75 SQMM X 2C - 7A, 125V
	1.25 SQMM X 2C - 10A, 125V
VCTFK	0.75 SQMM X 2C - 7A, 125V
	1.25 SQMM X 2C - 10A, 125V

Applicable Country : Japan

TYPE A

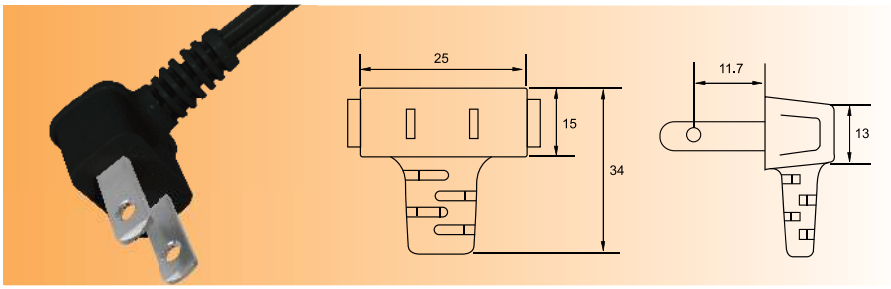


WT-109

VCTFK	0.75 SQMM X 2C - 7A, 125V
	1.25 SQMM X 2C - 10A, 125V
VCTF	0.75 SQMM X 2C - 7A, 125V
	1.25 SQMM X 2C - 10A, 125V

Applicable Country : Japan

TYPE A



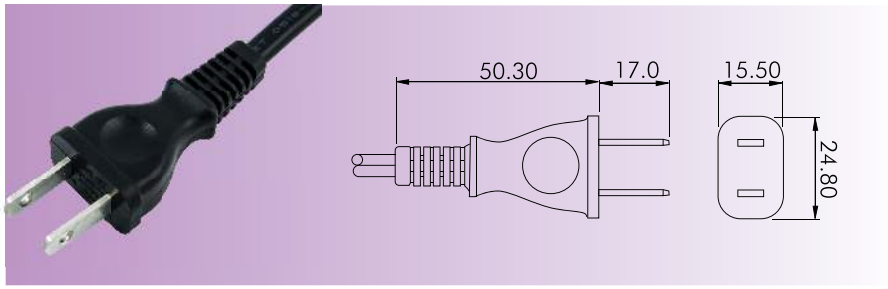
WP-100

VFF	0.50 SQMM X 2C - 2.5A 125V
	0.75 SQMM X 2C - 7A, 125V
	1.25 SQMM X 2C - 10A, 125V
VCTFK	0.75 SQMM X 2C - 7A, 125V
	1.25 SQMM X 2C - 10A, 125V

BSMI

Applicable Country : Japan , Taiwan

TYPE A



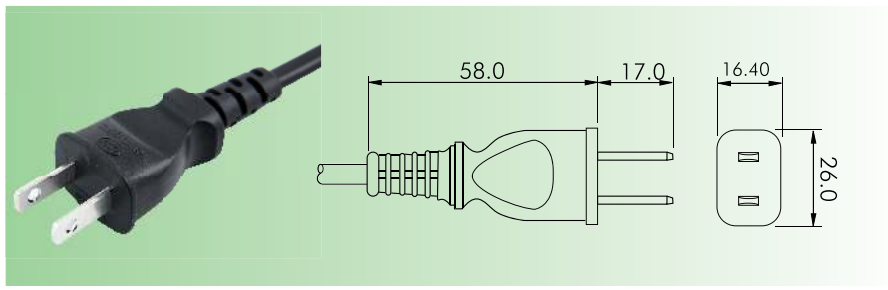
WP-100H

VCTFK	0.75 SQMM X 2C - 7A, 125V
	1.25 SQMM X 2C - 10A, 125V
VCTF	0.75 SQMM X 2C - 7A, 125V
	1.25 SQMM X 2C - 10A, 125V

BSMI

Applicable Country : Japan , Taiwan

TYPE A



Noted : This specification is reference only .Please contact to request an official specification from sales office.

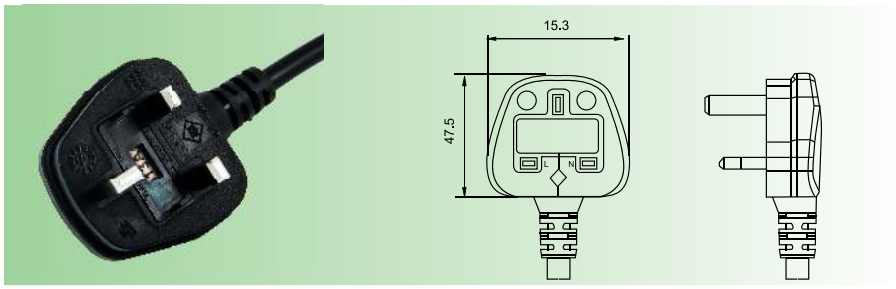
WP-13A

BS 1363-1 : 1995 with A1 , A2 And A3/SS 145 : Part 1 : 1997 / MS 589 : Part 1 : 1997 Intertek Type Certificate Number : CN-GSOG-2016956R2
BS 1363-1 : 2016+A1 : 2018 SASO 2203 : 2018

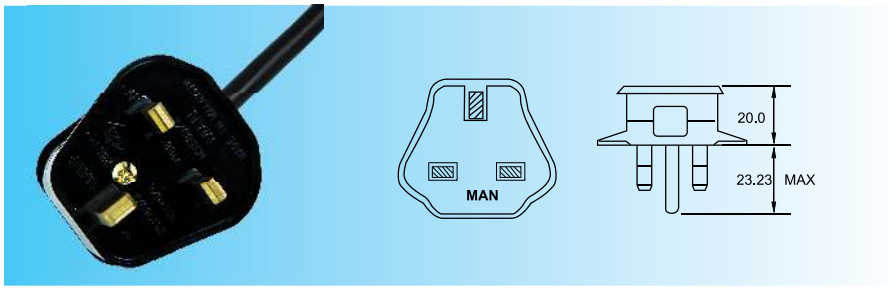
H03VVH2-F	0.75 SQMM X 2C - 6A, 250V
H05VVH2-F	0.75 SQMM X 2C - 6A, 250V
H03VV-F	0.75 SQMM X 3C - 6A, 250V
H05VV-F	0.75 SQMM X 3C - 6A, 250V
	1.00 SQMM X 3C -10A, 250V
	1.5 0SQMM X 3C - 13A, 250V
H05RR-F	0.75 SQMM X 3C - 6A, 250V
	1.00 SQMM X 3C -10A, 250V
H05RN-F	0.75 SQMM X 3C - 6A, 250V
	1.00 SQMM X 3C -10A, 250V
H07RN-F	1.00 SQMM X 3C -10A, 250V
	1.50 SQMM X 3C -13A, 250V

Applicable Country : UK , Malaysia , Singapore,Hongkok

TYPE G (MOLDING TYPE)



TYPE G (ASSEMBLY TYPE)



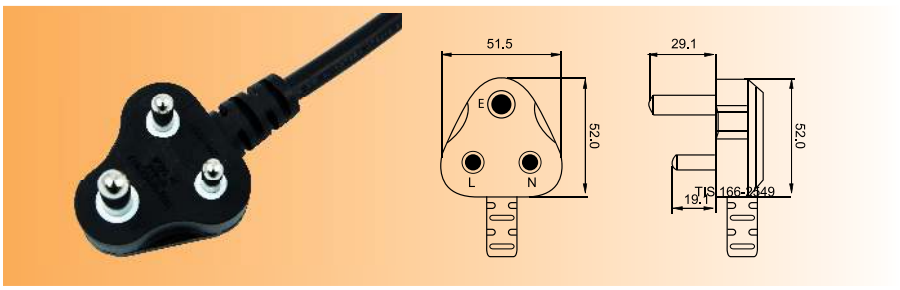
WP-546

BS 546-1 : 1950

H05VV-F	0.75 SQMM X 3C - 6A, 250V
	1.00 SQMM X 3C - 10A, 250V
	1.50 SQMM X 3C - 15A, 250V
	2.50 SQMM X 3C - 15A, 250V

Applicable Country : UK

TYPE D



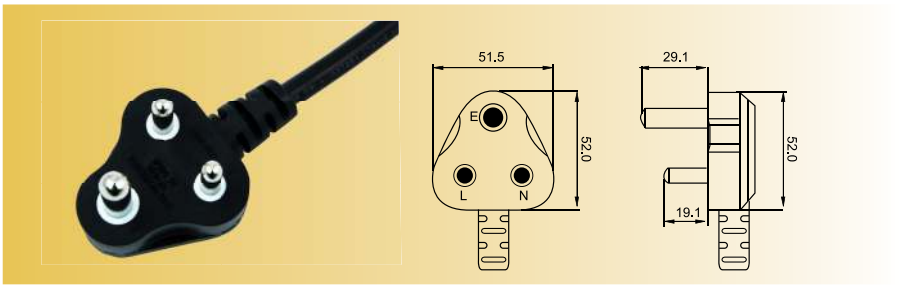
WP-501

IS 1293 :2019
POWER CABLE *IS 694:2010*

1.00 SQMM X 3C - 16A 250V
1.50 SQMM X 3C - 16A 250V

Applicable : India

TYPE D



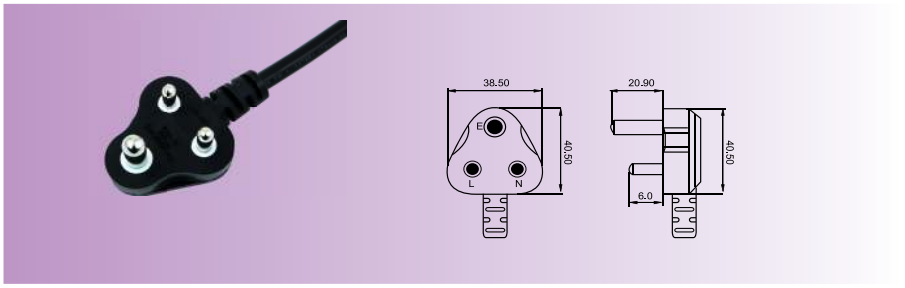
STANDARD : SOUTH AFRICA SANS 164-1 , SANS 164-3 Based on BS546

WP-502

IS 1293 :2019
POWER CABLE *IS 694:2010*
0.75 SQMM X 3C - 6A 250V

Applicable : India

TYPE D



STANDARD : SOUTH AFRICA SANS 164-1 , SANS 164-3 Based on BS546

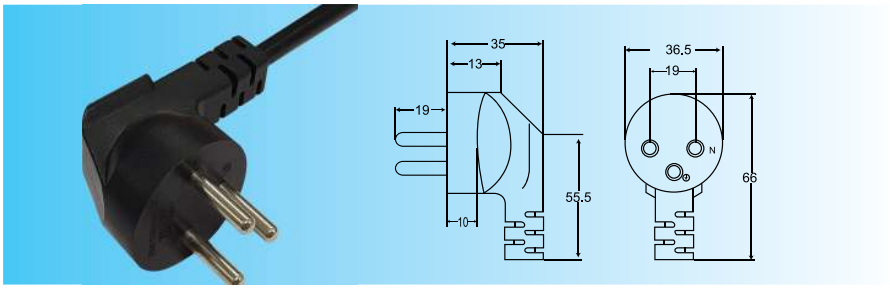
Noted : This specification is reference only .Please contact to request an official specification from sales office.

ISRAEL SI32

WP-206

0.75 SQMM X 3C - 6A 250V
1.00 SQMM X 3C - 10A 250V
1.50 SQMM X 3C - 15A 250V

Country : Isarael



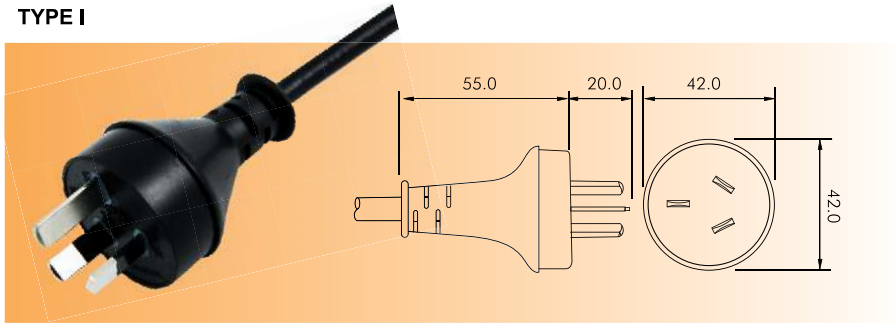
TYPE I

WP-301

LTSA-3 0.75 SQMM X 3C - 7.5A, 250V

GTSA-3 0.75 SQMM X 3C - 7.5A, 250V
1.0 SQMM X 3C - 10A, 250V
1.5 SQMM X 3C - 10A, 250V

Country : Australia

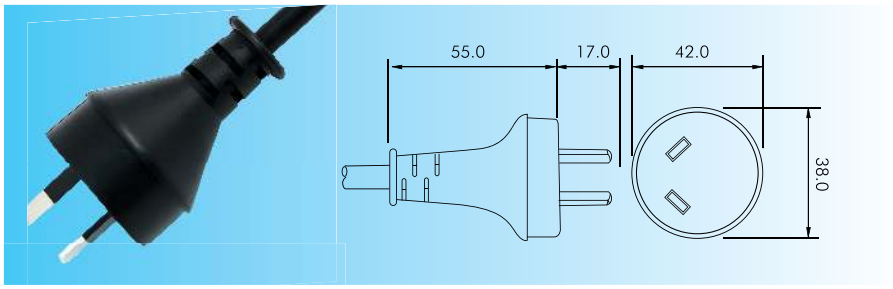


TYPE I

WP-302

LTSA-2F 0.75 SQMM X 2C - 7.5A, 250V
GTSA-2F 0.75 SQMM X 2C - 7.5A, 250V
LTSA-2 0.75 SQMM X 2C - 7.5A, 250V
GTSA-2 0.75 SQMM X 2C - 7.5A, 250V
1.00 SQMM X 2C - 10A, 250V
1.50 SQMM X 2C - 10A, 250V

Country : Australia

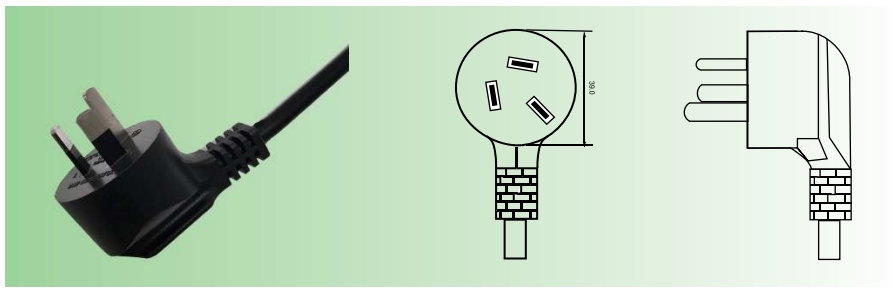


TYPE I

WP-303

GTSA-3 0.75 SQMM X 3C - 7.5A, 250V
1.0 SQMM X 3C - 10A, 250V

Country : Australia



CABLE

SAA	IEC
LTSA-2F	H03VVH2-F
GTSA-2F	H05VVH2-F
LTSA-2	H03VV-F (2C)
GTSA-2	H05VV-F (2C)
LTSA-3	H03VV-F (3C)
GTSA-3	H05VV-F (3C)

Noted : This specification is reference only .Please contact to request an official specification from sales office.

IEC 60320 Appliance couplers for household and similar general purposes[1] is a set of standards from the International Electrotechnical Commission (IEC) specifying non-locking connectors for connecting power supply cords to electrical appliances of voltage not exceeding 250 V (a.c.) and rated current not exceeding 16 A.[1] Different types of connector (distinguished by shape and size) are specified for different combinations of current, temperature and earthing requirements. Unlike IEC 60309 connectors, they are not coded for voltage; users must ensure that the voltage rating of the equipment is compatible with the mains supply. The standard uses the term coupler to encompass connectors on power cords and power inlets and outlets built into appliances

EN60320 Molded Connectors

C7
2.5A/250V
10A/125V

C5
2.5A/250V
10A/125V
***

C17
10A/250V
15A/250V
***

C13
10A/250V
15A/250V

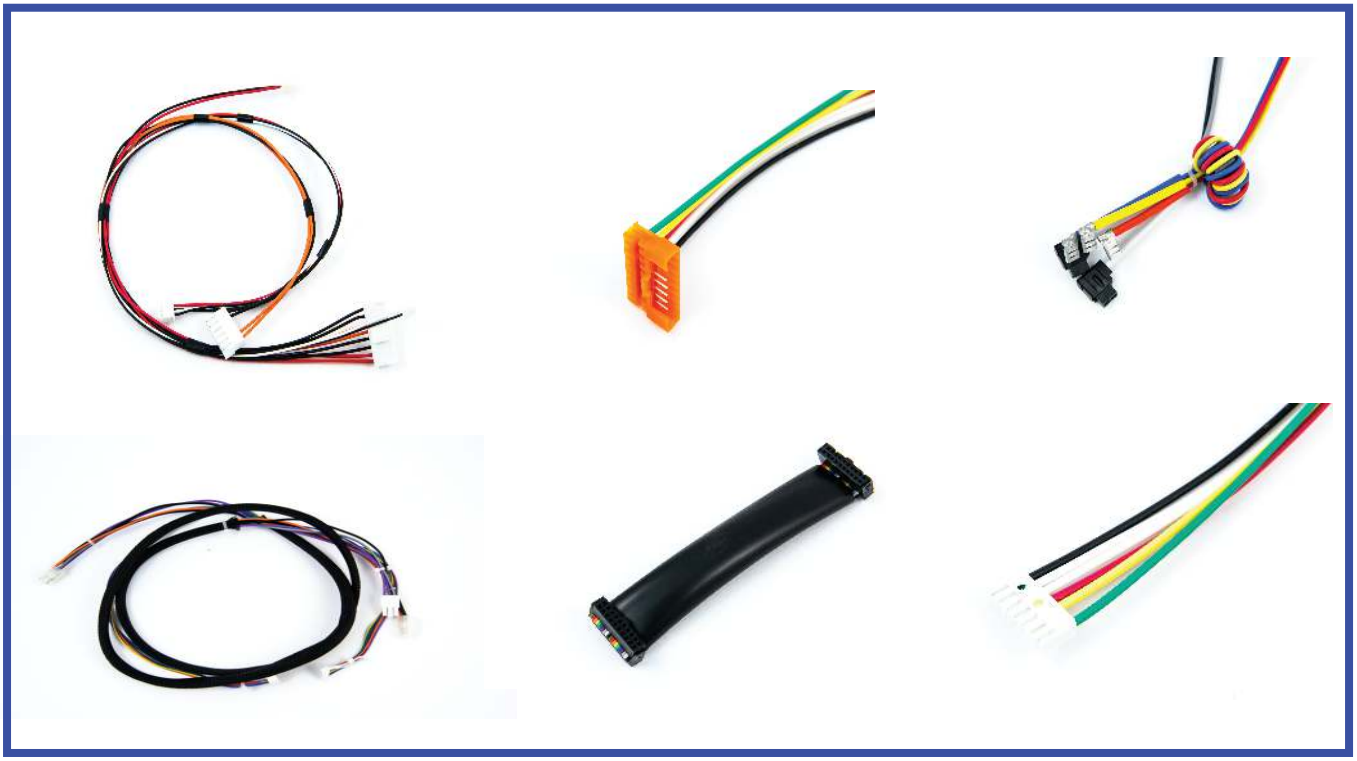
C15
10A/250V
15A/250V
***

C19
16A/250V
20A/250V
***

120C max.
***

*** Thai Wonderful on approval

Noted : This specification is reference only .Please contact to request an official specification from sales office.



Home Appliance - Automobiles - Computer

TYPE A
UL Standard

TYPE B
UL Standard

TYPE C
EU Standard

TYPE D
ZA Stansard

TYPE E
EU Standard

TYPE F
EU Standard

TYPE G
UK Standard

TYPE H
Israel Standard

TYPE I
SAA Standard

TYPE J
Switzerland Standard

TYPE K
Danmark Standard

TYPE L
Italy Standard

TYPE M
ZA Standard

TYPE N
Brazil Standard

TYPE O
Thailand Standard

TIS 166-2549

ZA - South Africa , India

Noted : This specification is reference only .Please contact to request an official specification from sales office.

PRODUCTION

Copper rod 8.0 mm

Tinned and bare copper

Bare copper twist

Tinned copper twist

Copper production

Wire packing

Bobbin packing

Dram cable packing

Comminication cable

Warehouse

Export packing

THAI WONDERFUL WIRE CABLE

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Web：http://www.thaiwonderful.com E-Mail：panoopan@thaiwonderful.com

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Year 2024

SINCE 1991