



Product: [1048S](#)

Inst, 2 Pr #18 Str BC, XLPE Ins E1, IS/OS, Blk LSZH Jkt, 600V TC 90C Dry/Wet

Product Description

UL Instrumentation, 2 Pair 18AWG (7x26) Bare Copper, XLPE Insulation E1 Color Code, Individual & Overall Beldfoil® Shield, Black LSZH Outer Jacket, 600V TC 90C Dry/Wet SUN RES

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
18	7x26	BC - Bare Copper	2

Conductor Count:	4
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Insulation

Material	Nominal Diameter	Nominal Wall Thickness
XLPE, XLPO, XLPE (Thermoset)	0.106 in	0.031 in

Color Chart

Number	Color
Pairs 1 & 2	ICEA S-73-732 Table E1: Black & White and Numbered

Inner Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	20

Outer Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	18

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.506 in	0.047 in

Electrical Characteristics

Conductor DCR

Individual Pair Nominal Shield DCR	Nominal Conductor DCR	Nominal Outer Shield DCR
7.46 Ohm/1000ft	5.86 Ohm/1000ft	4.91 Ohm/1000ft

Current

Max. Recommended Current [A]
4.8 Amps per Conductor at 30°C

Voltage

UL Description	UL Voltage Rating	Voltage Rating [V]
TC	600 V RMS (Type TC)	600 V RMS (Type TC)

Temperature Range

Operating Temp Range:	-30°C To +90 °C Dry/Wet
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Mechanical Characteristics

Bulk Cable Weight:	98 lbs/1000ft
Max. Pull Tension:	140 lbs
Min Bend Radius/Minor Axis:	5.1 in

Standards

NEC/(UL) Compliance:	TC, XHHW-2
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Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-04-01

Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 UL Loading
CSA Flammability:	FT4
IEEE Flammability:	1202
UL voltage rating:	600 V RMS (Type TC)

Product Notes

Notes:	Alternate color coding available upon request.
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History

Update and Revision:	Revision Number: 0.42 Revision Date: 09-30-2020
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