



Part Number: 8777LS

Audio, Control and Instrumentation Cable Individually Shielded Pairs, RS-485

Product Description

22 AWG, Stranded (7 x 30) TC Conductors, Polypropylene Insulation, Individually Beldfoil® Shielded Pairs, 22 AWG Stranded TC Drain Wire, Chrome LSZH Jacket, 3 Pairs, Steel Wire Armor

Technical Specifications

Product Overview

Environmental Space:	Indoor
Suitable Applications:	Instrumentation and computer cable; For data transmission applications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
22	7x30	TC - Tinned Copper	3

Conductor Count:	6
Total Number of Pairs:	3

Insulation

Material	Nominal Diameter	Diameter +/- Tolerance
PP - Polypropylene	1.27 mm	0.05 mm

Color Chart

Number	Color
Pair 1	Black & Red
Pair 2	Black & White
Pair 3	Black & Green

Color Chart1, Table Note:	Shielded pairs
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Color Chart 2

Number	Color
Pair 1	Red
Pair 2	Green
Pair 3	Blue

Inner Shield Material

Type	Material	Material Trade Name	Drainwire Material	Drainwire AWG
Tape	Aluminum / Polyester	Z-fold®	Tinned copper	AWG22/7

Inner Jacket Material

Material	Color	Nominal Diameter	Nominal Wall Thickness
FRNC / LSZH	Chrome (RAL 7037)	7 mm	0.89 mm

Outer Shield Material

Material
Aluminum/Polyester

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
LSZH / FRNC (UV stabilised)	11.5 mm	1.35 mm

Construction and Dimensions

Cabling

Description
3 pairs twisted to cable core

Armor

Type of Armor	Material	Thickness of Armoring Wires	Coverage Percentage
Steel Wire Armoring	Galvanized steel wire	0.9 mm	Min. 95 %

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Inner Shield DCR
49.2 Ohm/km	34.8 Ohm/km

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
98.4 pF/m	180.4 pF/m

Inductance

Nominal Pair Inductance
0.59 µH/m

Impedance

Nominal Characteristic Impedance
50 Ohm

Current

Element	Max. Recommended Current [A]
Conductor	2 A

Voltage

Voltage Rating [V]
300 V

Temperature Range

Installation Temp Range:	-15°C To +80°C
Storage Temp Range:	-45°C To +80°C
Operating Temp Range (Flexible Install):	-15°C To +80°C
Operating Temp Range (Fixed Install):	-45°C To +80°C

Mechanical Characteristics

Oil Resistance:	IEC 60811-404
Min Bend Radius During Installation:	115 mm

Standards

CENELEC Compliance:	EN 50290-2-27
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Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	2005-01-01
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Flammability, LS0H, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-3-24
Amount of Halogen acc. to IEC 60754-1 & EN50267-1:	Zero

Part Number

Variants

Item #	Color	Length
8777LS.001000	Black	1,000 m
8777LS.00500	Black	500 m
8777LS.K01000	Black	1,000 m

History

Update and Revision:	Revision Number: 0.157 Revision Date: 09-02-2019
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