



Product: [8777NH](#)

Audio, Control & Instrument, #22-3pr, PP, Individ. Foil, LSZH Jkt, B2ca

Product Description

Audio, Control & Instrument Cable, 3-Pair, 22 AWG stranded (7x30) tinned copper conductors, polypropylene insulation, individually shielded pairs (100% coverage), 22 AWG stranded tinned copper drain wire, LSZH jacket, CPR B2ca

Technical Specifications

Product Overview

Suitable Applications:	low voltage analog signals (4-20ma, 0-10v, ...); low voltage digital control (24v, ...); line level audio; computer communication; panel wiring
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Physical Characteristics (Overall)

Conductor				
AWG	Stranding	Material	Nominal Diameter	No. of Pairs
22	7x30	TC - Tinned Copper	0.03 mm	3
Conductor Count:				6

Material	Nominal Diameter	Diameter +/- Tolerance	Nominal Wall Thickness
PP - Polypropylene	1.27 mm	0.05 mm	0.01 in

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

Table Notes:	Shielded pairs
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Number	Color
Pair 1	Red
Pair 2	Green
Pair 3	Blue

Type	Layer	Material	Material Trade Name	Coverage [%]	Thickness of Foil	Drainwire Material	Drainwire AWG
Tape	1	Bi-Laminate (Alum+Poly)	Beldfoil® (Z-Fold®)	100%	9 / 12 µm	TC - Tinned Copper	AWG22/7
		Polyester					

Material	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	7.00 mm	0.89 mm

Construction and Dimensions

Stranding

Twists

6.86 twist/ft

Cabling

Description
3 wires twisted to cable core

Electrical Characteristics

Conductor DCR

Individual Pair Nominal Shield DCR	Nominal Conductor DCR	Nominal Inner Shield DCR
10.6 Ohm/1000ft	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 Inductance	Nominal Pair Inductance
0.18 µH/ft	0.59 µH/m

Impedance

Nominal Characteristic Impedance
50 Ohm

Delay

Max. Delay Skew	Nominal Velocity of Propagation (VP) [%]
66 ns/100m	66%

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
UL Temp Rating:	80°C
Storage Temp Range:	-45°C To +80°C
Operating Temp Range:	-20°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
Bulk Cable Weight:	42 lbs/1000ft
Max. Pull Tension:	180 N
Min Bend Radius During Installation:	70 mm
Min Bend Radius/Minor Axis:	2.75 in

Standards

CPR Euroclass:	B2ca-s1,d1,a1
CENELEC Compliance:	EN 50290-2-27

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass B2ca
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-08-01
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
Suitability - Non-Halogenated:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LSOH, Toxicity Testing

IEC Flammability:	IEC 60332-1-2 and IEC 60332-3-24
IEC 60754-1 (EN50267-1)- Halogen Amount:	Zero
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Max. Conductivity:	2.5 µS/mm
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Min. pH:	4.3
IEC 61034-2 (EN 61034-2) (VDE 0482-1034) - Smoke Density Min. Transmittance:	60%

Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Putup Type	Length	EAN
8777NH.00152	Chrome	Reel	152 m	8719605019608
8777NH.00305	Chrome	Reel	305 m	8719605019615
8777NH.00500	Chrome	Reel	500 m	8719605019622
8777NH.001000	Chrome	Reel	1,000 m	8719605019592
8777NH.01500	Orange	Reel	500 m	8719605187062

History

Update and Revision:	Revision Number: 0.278 Revision Date: 12-22-2020
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