

## 3 Pair, 22 AWG, PO, Individual Foil, CMG-LS, LSZH - Audio, Control & Instrument Cable



### Product Description

Audio, Control & Instrument Cable, 22 AWG stranded (7x30) tinned copper conductors, polypropylene insulation, 3 twisted pairs each individually shielded (100% coverage), 22 AWG stranded tinned copper drain wire each pair, LSZH jacket.

### Technical Specifications

#### Product Overview

<b>Environmental Space:</b>	Indoor – Euro class B2ca
<b>Suitable Applications:</b>	Instrumentation and computer cable; For data transmission applications

#### Physical Characteristics (Overall)

##### Conductor

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

##### Insulation

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

#### Color Chart

Number	Color
Pair 1	Black & Red
Pair 2	Black & White
Pair 3	Black & Green
Color Chart1, Table Note:	Shielded pairs

## Color Chart 2

Number	Color
Pair 1	Red
Pair 2	Green
Pair 3	Blue

## Inner Shield Material

Type	Layer	Material	Coverage [%]	Thickness of Foil	Drain wire Material	Drain wire AWG
Tape	1	Aluminum / Polyester	100 %	9 / 12 $\mu$ m	Tinned copper	AWG22/7

## Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
LSZH / FRNC (UV Stabilized)	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 $\mu$ H/ft	0.59 $\mu$ H/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

UL Voltage Rating	Voltage Rating [V]
300 V RMS (CMG)	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

### Suitability

Suitability - Indoor:	Yes
Suitability - Non-Halogenated:	Yes

### Mechanical Characteristics

Oil Resistance:	IEC 60811-404
Bulk Cable Weight:	42 lbs/1000ft
Max Recommended Pulling Tension:	358 N
Min Bend Radius During Installation:	70 mm
Min Bend Radius/Minor Axis:	2.75 in

## Standards

NEC/(UL) Specification:	CMG
CEC/C(UL) Specification:	CMG
CPR Euro class:	B2ca-s1,d1,a1
CENELEC Compliance:	EN 50290-2-27
Other Specification:	UL AWM 21088

## Applicable Environmental and Other Programs

EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-08-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

## Flammability, LSOH, Toxicity Testing

C(UL) Flammability:	FT4
UL Flammability:	UL1685 FT4 Loading
ISO/IEC Flammability:	IEC 60332-1-2 and IEC 60332-3-24
Amount of Halogen acc. to IEC 60754-1 & EN50267-1:	Zero
UL voltage rating:	300 V RMS (CMG)

## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Part Number

Part Number	Description
AN3P-AV22GY-305MT-LSZH	3 Pair, 22 AWG, PO, Individual Foil, CMG-LS, LSZH - Audio, Control & Instrument Cable