

Part Number: 8777

Audio, Control & Instrument, #22-3pr, PO, Individ. Foil, PVC Jkt, CM



Product Description

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

Technical Specifications

Physical Characteristics (Overall)

Conductor

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

Conductor Count:	6
Conductor Size:	22 AWG

Insulation

Material	Nominal Wall Thickness
PP - Polypropylene	0.011 in

Color Chart

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

Inner Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	1	Aluminum-Polyester	Beldfoil®	100 %	TC - Tinned Copper	22	7x30 mm

Inner Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.273 in

Outer Shield Material

Material
Unshielded

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.553 in	0.034 in

Construction and Dimensions

Stranding

Lay Direction	Twists
Left Hand	6.9 twist/ft

Armor

Type of Armor	Material	Diameter over Armoring
Interlocked Armor	Aluminum	0.463 in

Electrical Characteristics

Conductor DCR

Individual Pair Nominal Shield DCR	Nominal Conductor DCR	Nominal Outer Shield DCR
10.6 Ohm/1000ft	15 Ohm/1000ft	10.6 Ohm/km

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
30 pF/ft	55 pF/ft
10.6 pF/ft	

Shielding: Individually Foiled + No Overall

Inductance

Nominal Inductance
0.18 μ H/ft

Impedance

Nominal Characteristic Impedance
50 Ohm

High Frequency (Nominal/Typical)

Nom. Insertion Loss
10.7 dB/100m
10.7 dB/100m

Delay

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

Current

Max. Recommended Current [A]
2 Amps per conductor @ 25°C

Current Table Note: 10C Temperature Rise

Voltage

UL Description	UL Voltage Rating
Listed type CM	300 V
AWM 2919	30 V RMS (UL AWM 2919)

Temperature Range

UL Temp Rating:	80°C
Storage Temp Range:	-40°C To +80 °C
Operating Temp Range:	-20°C To +80°C

Mechanical Characteristics

Bulk Cable Weight:	138 lbs/1000ft
Max Recommended Pulling Tension:	200 lbs
Min Bend Radius/Minor Axis:	5.5 in

Dimensions (WxHxD)

Width
10.69

Standards

NEC Articles:	800
NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
UL AWM Style:	2919 (30 V 80°C)
CPR Euroclass:	Eca

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
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EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Hazardous Locations:	Yes
Suitability - Indoor:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 UL Loading
CSA Flammability:	FT1
UL voltage rating:	300 V RMS (CM)

Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	88777, 87777, 82777

Part Number

Variants

Item #	Color	Footnote
8777.001000	Chrome	
8777.0030	Chrome	
8777.00305	Chrome	
8777.00U152	Chrome	
8777.00U305	Chrome	
8777.01152	Chrome	
8777.013048	Chrome	
8777 060100	Chrome	
8777 0601000	Chrome	C
8777 06010000	Chrome	C Y
8777 0601640	Chrome	C
8777 060250	Chrome	C
8777 0603280	Chrome	C
8777 060500	Chrome	C
8777 0605000	Chrome	C
8777 060U1000	Chrome	
8777 060U500	Chrome	

Footnote:	C - CRATE REEL PUT-UP.
Footnote:	Y - FINAL PUT-UP LENGTH MAY VAR -10% TO +20% FROM LENGTH SHOWN. MAY CONTAIN 2 PIECES. MINIMUM LENGTH OF ANY ONE PIECE IS 1500'.

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