

Part Number: 9874

Audio, Control & Instrument, #20-6pr, PO, Individ. Foil, PVC Jkt, CM



Product Description

Audio, Control & Instrument Cable, 20 AWG stranded (7x28) tinned copper conductors, polypropylene insulation, twisted pairs, individually shielded with Beldfoil® (100% coverage), 22 AWG stranded tinned copper drain wire, overall PVC jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Conductors	No. of Pairs
20	7x28	TC - Tinned Copper	12	6

Conductor Count:	12
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Insulation

Material	Nominal Wall Thickness
PP - Polypropylene	0.015 in

Color Chart

Number	Color
1	Black & Red
2	Black & White
3	Black & Green
4	Black & Blue
5	Black & Yellow
6	Black & Brown

Inner Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Aluminum Foil-Polyester Tape	Beldfoil® (Z-Fold®)	100 %	TC - Tinned Copper	22	19x34 mm

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.445 in	0.035 in

Electrical Characteristics

Conductor DCR

Individual Pair Nominal Shield DCR	Nominal Conductor DCR
11.3 Ohm/1000ft	10.5 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield	Nom. Capacitance Conductor to Shield
30 pF/ft	55 pF/ft	19.5 pF/m

Inductance

Nominal Inductance
0.18 µH/ft

Impedance

Nominal Characteristic Impedance

50 Ohm

Delay

Max. Delay Skew | Nominal Velocity of Propagation (VP) [%]

66 ns/100m | 66 %

High Freq

Max. Insertion Loss (Attenuation)	Min. ACR [dB]	Min. ACRF (ELFEXT) [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]	Min. SRL (Structural Return Loss)
19.3 dB/100m	19.3 dB				
19.3 dB/100m				19.5 dB	
				19.5 dB	19.5 dB
			19.3 dB		
		19.1 dB		19.5 dB	
				19.5 dB	
				19.4 dB	19.1 dB
				19.2 dB	
		19.2 dB			

Current

Max. Recommended Current [A]

2.7 Amps per conductor @ 25°C A

Voltage

UL Description | UL Voltage Rating

UL AWM Style 2919	30V RMS
CM	300 V RMS

Temperature Range

UL Temp Rating:	80°C (UL AWM Style 2919)
Operating Temp Range:	-20°C To +80°C

Mechanical Characteristics

Bulk Cable Weight:	102 lbs/1000ft
Max Recommended Pulling Tension:	256 lbs
Min Bend Radius/Minor Axis:	4.5 in

Standards

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 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

Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 UL Loading
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Part Number

Plenum (Y/N):

No

Variants

Item #	Color
9874 060100	Chrome
9874 0601000	Chrome
9874 060500	Chrome
9874 0605000	Chrome

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