

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

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
------------------	-------------------

Part Number

Variants

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

© 2018 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS(Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.