BELDEN
SENDING ALL THE RIGHT SIGNALS

Part Number: 9963

Audio/Control/Communication/Instrumentation, (3) 20 AWG (19x32) TC, PVC-NYL/PVC, TC Braid Shld

⁑ Request Sample

Product Description

Three 20 AWG stranded (19x32) tinned copper conductors, PVC-Nylon insulation, tinned copper braid shield (90% coverage), PVC jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Conductors
20	19x32	TC - Tinned Copper	3

Conductor Count:	3
Conductor Size:	20 AWG

Insulation

Layer	Material	Nominal Wall Thickness
1	PVC - Polyvinyl Chloride	0.011 in
2	Nylon	0.003 in

Color Chart

Number	Color
1	White
2	Black
3	Red

Outer Shield Material

Type	Material	Coverage [%]
Braid	TC - Tinned Copper	90 %

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.21 in	0.025 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
9.1 Ohm/1000ft	5.8 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
49 pF/ft	84 pF/ft

Shielding:	Braid(s)

Inductance

Nominal Inductance
0.145 µH/ft

Current

Max. Recommended Current [A]

3.8 Amps per conductor @ 25°C A

Voltage

Non-UL Voltage Rating
600 V RMS

Electrical Characteristics Notes:	Insulation Resistance: 500 megohms/1000 ft. @ 500 VDC

Temperature Range

UL Temp Rating:	105°C
Operating Temp Range:	-20°C To +105°C

Mechanical Characteristics

Bulk Cable Weight:	29 lbs/1000ft
Max Recommended Pulling Tension:	45 lbs
Min Bend Radius/Minor Axis:	2.25 in

Standards

CPR Euroclass:	Eca
Military Specification:	MIL-W-16878E/17 (insulated conductor)
Other Specification:	NEMA HP3

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	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):	2005-10-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Plenum/Non-Plenum

Plenum (Y/N):	No

Part Number

Variants

Item #	Color	Footnote
9963 009100	White	
9963 0091000	White	C
9963 009500	White	C

Footnote:	C - CRATE REEL PUT-UP.