



**Part Number: 9963**

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

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**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
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##### Variants

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

Footnote: C - CRATE REEL PUT-UP.

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