

9963 Multi-Conductor - Communication and Instrumentation Cable



For more Information
please call

1-800-Belden1

**General Description:**

20 AWG stranded (19x32) tinned copper conductors, conductors cabled, nylon skin over insulation, PVC insulation, tinned copper braid shield (90% coverage), PVC jacket.

Physical Characteristics (Overall)**Conductor**

AWG:

# Conductors	AWG	Stranding	Conductor Material
3	20	19x32	TC - Tinned Copper

Total Number of Conductors: 3

Insulation

Insulation Material:

Layer #	Insulation Material	Wall Thickness (mm)
1	PVC - Polyvinyl Chloride	0.279
2	Nylon	0.076

Insulation Resistance: 500 megohms/1000 ft. @ 500 VDC

Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	TC - Tinned Copper	90

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.635

Overall Cable

Overall Cabling Color Code Chart:

Number	Color
1	White
2	Black
3	Red

Overall Nominal Diameter: 5.334 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +105°C
UL Temperature Rating:	105°C
Bulk Cable Weight:	43.158 Kg/Km
Max. Recommended Pulling Tension:	200.169 N
Min. Bend Radius/Minor Axis:	57.150 mm

Applicable Specifications and Agency Compliance (Overall)**Applicable Standards & Environmental Programs**

EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	10/01/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes

METRIC MEASUREMENT VERSION

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MII Order #39 (China RoHS):	Yes
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Military Specification:	MIL-W-16878E/17 (insulated conductor)
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Other Specification:	NEMA HP3
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)

Nom. Inductance:

Inductance (µH/m)

0.475745

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

160.769

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)

275.604

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

29.8571

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

19.0298

Max. Operating Voltage - Non-UL:

Voltage

600 V RMS

Max. Recommended Current:

Current

3.8 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9963 009100	100 FT	3.600 LB	WHITE		3 #20 PVC/NY SHLD PVC
9963 0091000	1,000 FT	31.000 LB	WHITE	C	3 #20 PVC/NY SHLD PVC
9963 009500	500 FT	16.000 LB	WHITE	C	3 #20 PVC/NY SHLD PVC

Notes:

C = CRATE REEL PUT-UP.

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