

## 9963 Multi-Conductor - Communication and Instrumentation Cable



For more Information  
please call

1-800-Belden1



### 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

#### Insulation

##### Insulation Material:

Layer #	Insulation Material	Wall Thickness (in.)
1	PVC - Polyvinyl Chloride	.011
2	Nylon	.004

##### 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 (in.)
PVC - Polyvinyl Chloride	.025

#### Overall Cable

##### Overall Cabling Lay Length & Direction:

Length (in.)	Twists (ft.)
1.75	6.88

##### Overall Cabling Color Code Chart:

Number	Color
1	White
2	Black
3	Red

##### Overall Nominal Diameter:

0.210 in.

### Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +105°C

UL Temperature Rating: 105°C

Bulk Cable Weight: 28.900 lbs/1000 ft.

Max. Recommended Pulling Tension: 45 lbs.

Min. Bend Radius (Install)/Minor Axis: 2 in.

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### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

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

#### Flame Test

UL Flame Test:	UL1685 UL Loading, VW-1
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#### Plenum/Non-Plenum

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

#### Nom. Inductance:

Inductance (µH/ft)
.145

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
49

#### Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
84

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
9.1

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
5.8

#### Max. Operating Voltage - UL:

Voltage
600 V RMS

#### Max. Recommended Current:

Current
3.8 Amps per conductor @ 25°C

### Related Documents:

No related documents are available for this product

### 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	14.500 LB	WHITE	C	3 #20 PVC/NY SHLD PVC

#### Notes:

C = CRATE REEL PUT-UP.

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Revision Number: 2    Revision Date: 09-19-2008

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