

## 9964 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% shield coverage), PVC jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

# Conductors	AWG	Stranding	Conductor Material
4	20	19x32	TC - Tinned Copper

**Insulation****Insulation Material:**

Layer #	Insulation Material	Wall Thickness (mm)
1	PVC - Polyvinyl Chloride	0.2794
2	Nylon	0.1016

**Insulation Resistance:**

700 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 Cabling****Overall Cabling Lay Length & Direction:**

Length (mm)	Twists (m.)
50.7998	1.8288

**Overall Cabling Color Code Chart:**

Number	Color
1	White
2	Black
3	Red
4	Green

**Overall Nominal Diameter:**

5.740 mm

**Mechanical Characteristics (Overall)**

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

**UL Temperature Rating:** 105°C

**Bulk Cable Weight:** 52.831 Kg/Km

**Max. Recommended Pulling Tension:** 266.892 N

**Min. Bend Radius (Install)/Minor Axis:** 57.150 mm

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## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; 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. Capacitance Conductor to Conductor:

Capacitance (pF/m)
131.24

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

Capacitance (pF/m)
328.1

## Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
29.529

## Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
16.0769

## Max. Operating Voltage - 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
9964 009100	30 MT	1.950 KG	WHITE		4 #20 PVC SHLD PVC
9964 0091000	305 MT	17.690 KG	WHITE	C	4 #20 PVC SHLD PVC
9964 009500	152 MT	8.165 KG	WHITE		4 #20 PVC SHLD PVC

## Notes:

C = CRATE REEL PUT-UP.

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