Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

9953 Multi-Conductor - Communication and Instrumentation Cable

For more Information
please call

1-800-Belden1

Description:

16 AWG stranded (19x29) 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	16	19x29	TC - Tinned Copper

Insulation

Insulation Material:

Layer #	Insulation Material	Wall Thickness (in.)
1	PVC - Polyvinyl Chloride	.012
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.)
2.25	5.3

Overall Cabling Color Code Chart:

Number	Color
1	White
2	Black
3	Red

Overall Nominal Diameter:	0.264 in.

Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +105°C
UL Temperature Rating:	105°C
Bulk Cable Weight:	52.100 lbs/1000 ft.
Max. Recommended Pulling Tension:	91.200 lbs.
Min. Bend Radius (Install)/Minor Axis:	2.500 in.

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

Plenum/Non-Plenum

Plenum (Y/N):	No

Electrical Characteristics (Overall)

Nom. Inductance:

Inductance (µH/ft)
.116

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
58

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
101

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
4.4

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
5.1

Max. Operating Voltage - UL:

Voltage
600 V RMS

Max. Recommended Current:

Current
6.5 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
9953 009100	100 FT	5.200 LB	WHITE		3 #16 PVC/NY SHLD PVC
9953 0091000	1,000 FT	56.000 LB	WHITE	C	3 #16 PVC/NY SHLD PVC
9953 009500	500 FT	26.000 LB	WHITE	C	3 #16 PVC/NY SHLD PVC

Notes:
C = CRATE REEL PUT-UP.

9953 Multi-Conductor - Communication and Instrumentation Cable

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

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.
Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.
Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.
Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.