

# Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

## 89503 Multi-Conductor - Computer Cable for EIA RS-232 Applications



For more Information  
please call

1-800-Belden1



### General Description:

24 AWG stranded (7x32) tinned copper conductors, plenum, FEP insulation, twisted pair, overall Beldfoil shield (100% coverage), 24 AWG stranded TC drain wire, FEP jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
3	24	7x32	TC - Tinned Copper

Total Number of Conductors:

6

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
FEP - Fluorinated Ethylene Propylene	.006

#### Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
24	7x32	TC - Tinned Copper

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
FEP - Fluorinated Ethylene Propylene	.014

#### Overall Cable

Overall Nominal Diameter:

0.175 in.

#### Pair

Pair Color Code Chart:

Number	Color
1	Black & White
2	Black & Red
3	Black & Green

### Mechanical Characteristics (Overall)

Operating Temperature Range: -70°C To +200°C

Bulk Cable Weight: 21 lbs/1000 ft.

Max. Recommended Pulling Tension: 39 lbs.

Min. Bend Radius/Minor Axis: 1.750 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

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): 04/01/2005

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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

#### Flame Test

UL Flame Test:	NFPA 262
C(UL) Flame Test:	FT1
CSA Flame Test:	FT6

#### Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	9503

#### Electrical Characteristics (Overall)

##### Nom. Inductance:

Inductance ( $\mu$ H/ft)
.17

##### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
21

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

Capacitance (pF/ft)
40

##### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
24.1

##### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
15.9

##### Max. Operating Voltage - UL:

Voltage
300 V RMS

##### Max. Recommended Current:

Current
1.5 Amps per conductor @ 25°C

#### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
89503 002100	100 FT	4.000 LB	RED	C	3 PR #24 FEP FS FEP
89503 0021000	1,000 FT	23.000 LB	RED	C	3 PR #24 FEP FS FEP
89503 002500	500 FT	12.000 LB	RED	C	3 PR #24 FEP FS FEP

##### Notes:

C = CRATE REEL PUT-UP.

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