

89207 Twinax - Electronic Twinax - 100 Ohm



For more Information
 please call
 1-800-Belden1

Description

100 Ohm twinaxial cable, 20AWG stranded (7x28) one tinned, one bare copper conductor, FEP insulation, overall FEP dielectric, Duofoil® + tinned copper braid shield 85%, FEP jacket.

Physical Characteristics (Overall):

Conductor:

AWG

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
1.000	20	7x28	TC - Tinned Copper	0.037
			BC - Bare Copper	

Insulation:

Insulation Material

Ins Trade Name	Ins Material	Wall Thickness (in.)
Teflon®	FEP - Fluorinated Ethylene Propylene	0.074

Inner Jacket:

Inner Jacket Material

Inner Jacket Trade Name	Inner Jacket Material	Nom. Dia. (in.)
Teflon®	FEP - Fluorinated Ethylene Propylene	0.201

Outer Shield:

Outer Shield Material

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	% Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	85

Outer Jacket:

Outer Jacket Material

Outer Jacket Trade Name	Outer Jacket Material
Teflon®	FEP - Fluorinated Ethylene Propylene

Overall Cabling:

Overall Nominal Diameter: .259 in.

Pair:

Pair Color Code Chart

Number	Color
1	Natural & Natural

Mechanical Characteristics (Overall):

Operating Temperature Range	-70°C To +200°C
Bulk Cable Weight:	52 lbs/1000 ft.
Max. Recommended Pulling Tension:	88 lbs.
Min. Bend Radius (Install):	5.400 in.

Applicable Specifications and Agency Compliance (Overall):

Applicable Standards:

NEC/(UL) Specification	CMP
CEC/C(UL) Specification	CMP

Flame Test:

UL Flame Test	NFPA 262
C(UL) Flame Test	FT6

Plenum/Non-Plenum:

Plenum (Y/N)	Y
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Non-Plenum Number

9207

Electrical Characteristics (Overall):

Nom. Characteristic Impedance

Impedance (Ohm)
100.000

Nom. Inductance

Inductance (μH/ft)
0.155

Nom. Capacitance Conductor to Conductor

Capacitance (pF/ft)
14.000

Nom. Capacitance Cond. to Other Conductor & Shield

Capacitance (pF/ft)
23.000

Nominal Velocity of Propagation

VP (%)
69.500

Nominal Delay

Delay (ns/ft)
1.410

Nom. Conductor DC Resistance

DCR @ 20°C (Ohm/1000 ft)
9.500

Nom. Attenuation

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Attenuation (dB/100 ft.)
	1.000			0.300
	10.000			1.200
	50.000			2.800
	100.000			4.100
	200.000			6.400
	300.000			8.400
	400.000			10.200

Max. Operating Voltage - UL

Voltage
300 V RMS

Nominal Outer Shield DC Resistance

DCR @ 20°C (Ohm/1000 ft)
2.500

Notes (Overall):

Notes Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

PUT UPS AND COLORS:

Item #	Putup	Ship Weight	Jacket Color	Notes	Item Desc
89207 010100	100 FT	6.700 LB	BLACK	C	2#20 FEP BRD FEP BLK
89207 0101000	1,000 FT	55.000 LB	BLACK	C	2#20 FEP BRD FEP BLK
89207 010500	500 FT	26.000 LB	BLACK	C	2#20 FEP BRD FEP BLK

Notes:

C = CRATE REEL PUT-UP.

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