Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

BELDEN
SENDING ALL THE RIGHT SIGNALS

89207 Twinax - Electronic Twinax - 100 Ohm

For more Information
please call

1-800-Belden1

General 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	20	7x28	TC - Tinned Copper	.037
			BC - Bare Copper	

Total Number of Conductors: 2

Insulation
Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (in.)
Teflon®	FEP - Fluorinated Ethylene Propylene	0.017

Inner Jacket
Inner Jacket Material:

Inner Jacket Trade Name	Inner Jacket Material	Nom Wall (in.)	Nom. Dia. (in.)
Teflon®	FEP - Fluorinated Ethylene Propylene	0.021	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	Nom. Wall Thickness (in.)
Teflon®	FEP - Fluorinated Ethylene Propylene	0.015

Overall Cable

Overall Nominal Diameter: 0.259 in.

Pair
Pair Color Code Chart:

Number	Color
1	Natural (bare conductor)
2	Natural (tinned conductor)

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/Minor Axis:	2.750 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

Flame Test

UL Flame Test:	NFPA 262
CSA Flame Test:	FT6

Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	9207

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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
100

Nom. Inductance:

Inductance (µH/ft)
0.155

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
14.0

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
23.0

Nominal Velocity of Propagation:

VP (%)
69.5

Nominal Delay:

Delay (ns/ft)
1.41

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
9.5

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
2.5

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	0.3
10	1.2
50	2.8
100	4.1
200	6.4
300	8.4
400	10.2

Max. Operating Voltage - UL:

Voltage
300 V RMS

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	Color	Notes	Item Desc
89207 010100	100 FT	6.700 LB	BLACK	C	2#20 FEP FEP SH FEP
89207 0101000	1,000 FT	55.000 LB	BLACK	C	2#20 FEP FEP SH FEP
89207 010500	500 FT	27.500 LB	BLACK	C	2#20 FEP FEP SH FEP

Notes:
C = CRATE REEL PUT-UP.

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