

89207 Twinax - Electronic Twinax - 100 Ohm



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:

CONDUCTOR:

Number of Pairs	1
Total Number of Conductors	2
AWG	20
Stranding	7x28
Conductor Diameter	.037 in.
Conductor Material	TC - Tinned Copper, BC - Bare Copper

INSULATION:

Insulation Material Trade Name	Teflon®
Insulation Material	FEP - Fluorinated Ethylene Propylene
Nom. Insulation Wall Thickness	.074 in.

PAIR:

Pair Color Code Chart :

Number	Color
1	Natural & Natural

INNER JACKET:

Inner Jacket Material Trade Name	Teflon®
Inner Jacket Material	FEP - Fluorinated Ethylene Propylene
Inner Jacket Diameter	.201 in.

OUTER SHIELD:

Outer Shield Trade Name	Duofoil®
Outer Shield Type	Tape/Braid

Outer Shield Material :

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

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Outer Shield % Coverage	100 %
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OUTER JACKET:

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

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.259 in.
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MECHANICAL CHARACTERISTICS:

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)	5.4 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

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
Non-Plenum Number	9207

ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	100 Ohms
Nom. Inductance	0.155 µH/ft
Nom. Capacitance Conductor to Conductor @ 1 KHz	14.0 pF/ft
Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz	23.0 pF/ft
Nominal Velocity of Propagation	69.5 %
Nominal Delay	1.41 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	9.5 Ohms/1000 ft
Nominal Outer Shield DC Resistance	2.5 Ohms/1000 ft
Nom. Attenuation :	

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Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. 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 300 V RMS

NOTES:

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	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
89207 010100	2#20 FEP BRD FEP	100	6.7	BLACK	C
89207 0101000	2#20 FEP BRD FEP	1000	55	BLACK	C
89207 010500	2#20 FEP BRD FEP	500	26	BLACK	C

C = CRATE REEL PUT-UP.

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