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1-800-Belden1



General Description:

20 AWG solid .032" silver-plated copper conductors, gas-injected FHDPE insulation, Duobond® (100% coverage) plus a tinned copper braid shield (85% coverage), inner PVC jacket, overall PVC jacket with ripcord. Multiple coaxes feature inner PVC jackets with printed numbers for circuit ID.

Usage (Overall)

Suitable Applications: Central Office wiring for DS3 transmissions.

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
3	20	Solid	SPC - Silver Plated Copper	0.813

Total Number of Conductors: 3

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
Gas-injected FHDPE - Foam High Density Polyethylene	3.759

Inner Shield

Inner Shield Material:

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

Inner Jacket

Inner Jacket Material:

Inner Jacket Material	Nom. Dia. (mm)
PVC - Polyvinyl Chloride	5.969

Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Ripcord: Yes

Overall Cable

Overall Nominal Diameter: 14.935 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +75°C

UL Temperature Rating: 75°C

Bulk Cable Weight: 202.395 Kg/Km

Max. Recommended Pulling Tension:	800.676 N
Min. Bend Radius (Each Coax):	63.500 mm
Min. Bend Radius (Overall):	152.400 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
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):	10/09/2007
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
Other Specification:	Telcordia Specification GF-139-CORE; SBC ENTERPRISE - SBC-002-316-019, ISSUE 4

Flame Test

UL Flame Test:	UL1666 Vertical Shaft
CSA Flame Test:	FT4

Suitability

Suitability - Indoor:	Yes
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

75

Nom. Inductance:

Inductance (µH/m)

0.318

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

55.121

Nominal Velocity of Propagation:

VP (%)

80.000

Nominal Delay:

Delay (ns/m)

4.167

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

32.810

Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/km)

7.874

Max. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1.000	0.919
5.000	1.936
10.000	2.625
22.500	3.872
50.000	5.971
100.000	8.531
150.000	10.565

Max. Operating Voltage - UL:

Voltage
300 V RMS

Other Electrical Characteristic 1: Impedance tested in accordance with ASTM D-4566 paragraph 48.2, option 2 using a 75 ohm fixed bridge and termination.

Other Electrical Characteristic 2: RL tested in accordance with ASTM D-4566 paragraph 50.3, using a 75 ohm fixed bridge and termination.

Other Electrical Characteristic 3: 100% sweep tested.

Minimum Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
5.000	150.000	32.000

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
734C3 0081000	1,000 FT	149.000 LB	GRAY		3#20LDPE/GIFHDLDPESHFRPVCFRPVC
734C3 0083000	3,000 FT	447.000 LB	GRAY		3#20LDPE/GIFHDLDPESHFRPVCFRPVC
734C3 0085000	5,000 FT	765.000 LB	GRAY		3#20LDPE/GIFHDLDPESHFRPVCFRPVC

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