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1-800-Belden1



General Description:

20 AWG solid .032" silver-plated copper conductors, gas-injected FHDPE insulation, Duobond® + tinned copper braid shield (85% coverage), inner PVC jackets, overall PVC jacket with ripcord.

Usage (Overall)

Suitable Applications: Central office wiring for DS3 transmission

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
12	20	Solid	SPC - Silver Plated Copper	0.813

Total Number of Conductors: 12

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: 27.178 mm

Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 686.060 Kg/Km

Max. Recommended Pulling Tension: 3202.704 N

Min. Bend Radius (Each Coax):	60.960 mm
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Min. Bend Radius (Overall):	271.780 mm
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Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMR
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CEC/C(UL) Specification:	CMG
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EU Directive 2011/65/EU (ROHS II):	Yes
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EU CE Mark:	Yes
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EU Directive 2000/53/EC (ELV):	Yes
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EU Directive 2002/95/EC (RoHS):	Yes
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EU RoHS Compliance Date (mm/dd/yyyy):	04/09/2007
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EU Directive 2002/96/EC (WEEE):	Yes
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EU Directive 2003/11/EC (BFR):	Yes
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CA Prop 65 (CJ for Wire & Cable):	Yes
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MII Order #39 (China RoHS):	Yes
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Other Specification:	Telcordia Specification GR-139-CORE; SBC ENTERPRISE - SBC-002-316-019, ISSUE 4
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Flame Test

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

32.810

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
734C12 0081000	1,000 FT	531.000 LB	GRAY	C	12#20 LDPE/FHDLDPESHFRPVCFRPVC
734C12 0082000	2,000 FT	1,040.000 LB	GRAY	C	12#20 LDPE/FHDLDPESHFRPVCFRPVC
734C12 0083000	3,000 FT	1,605.000 LB	GRAY		12#20 LDPE/FHDLDPESHFRPVCFRPVC

Notes:

C = CRATE REEL PUT-UP.

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