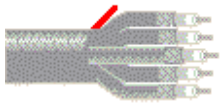
Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION

735A12 Coax - 735A* Series



For more Information
please call

1-800-Belden1

General Description:

26 AWG solid .016" silver-plated copper conductor(s), foam HDPE insulation, Beldfoil® + tinned copper braid shield (95% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
12	26	Solid	SPC - Silver Plated Copper	0.4064

Total Number of Conductors: 12

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
FHDPE - Foam High Density Polyethylene	1.9558

Inner Shield

Inner Shield Material:

Layer #	Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100.000
2		Braid	TC - Tinned Copper	95.000

Inner Jacket

Inner Jacket Material:

Inner Jacket Material	Nom. Dia. (mm)
PVC - Polyvinyl Chloride	3.2766

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: 14.757 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +75°C
Bulk Cable Weight:	284.246 Kg/Km
Max. Recommended Pulling Tension:	1334.460 N
Min. Bend Radius (Each Coax):	31.750 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):	01/01/2004
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 GR-139-Core

Flame Test

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

Suitability

Suitability - Indoor:	Yes

Plenum/Non-Plenum

Plenum (Y/N):	No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
75

Nom. Inductance:

Inductance (µH/m)
0.62339

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
58.0737

Nominal Velocity of Propagation:

VP (%)
76

Nominal Delay:

Delay (ns/m)
4.39654

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
134.521

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
17.3893

Max. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1.000	1.969
1.024	2.001

4.224	3.609
5.000	3.937
10.000	5.578
17.184	7.218
22.368	8.203
25.920	8.859
44.736	11.812
50.000	12.468
69.632	14.765
77.760	15.749
100.000	18.046
137.088	20.998
200.000	25.592

Max. Operating Voltage - UL:

Voltage
300 V RMS

Other Electrical Characteristic 1:	Impedance tested in accordance with ASTM D-4566 Paragraph 43.2, Option 2 using a 75 Ohm Fixed Bridge and Termination.
Other Electrical Characteristic 2:	RL tested in Accordance with ASTM D-4566 Paragraph 45.3, using a 75 Ohm Fixed Bridge and Termination.
Other Electrical Characteristic 3:	100% Sweep tested

Minimum Return Loss:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
		15	95	30

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
735A12 0081000	1,000 FT	206.000 LB	GRAY	C	12 #26 COAX FRPVC
735A12 008500	500 FT	104.500 LB	GRAY	C	12 #26 COAX FRPVC

Notes:
C = CRATE REEL PUT-UP.

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