



For more Information  
please call

1-800-Belden1



## General Description:

25H AWG solid .017" silver-plated copper conductors, foam HDPE insulation, Duobond® + tinned copper braid shield (95% coverage), inner PVC jackets, overall PVC jacket with ripcord.

## Usage (Overall)

Suitable Applications: Central Office wiring for DS3 transmissions

## Physical Characteristics (Overall)

### Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
12	25H	Solid	SPC - Silver Plated Copper	.0169

Total Number of Conductors: 12

### Insulation

Insulation Material:

Insulation Material	Dia. (in.)
FHDPE - Foam High Density Polyethylene	.077

### 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	100.000
2		Braid	TC - Tinned Copper	95.000

### Inner Jacket

Inner Jacket Material:

Inner Jacket Material	Nom. Dia. (in.)
PVC - Polyvinyl Chloride	0.134

### 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: 0.608 in.

## Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 204 lbs/1000 ft.

Max. Recommended Pulling Tension: 432 lbs.

Min. Bend Radius (Each Coax): 1.500 in.

Min. Bend Radius (Overall): 6.250 in.

## 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):	04/09/2007
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 GR-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
-----------------------	-----

**Plenum/Non-Plenum**

Plenum (Y/N):	No
---------------	----

**Electrical Characteristics (Overall)**

**Nom. Characteristic Impedance:**

Impedance (Ohm)  
75

**Nom. Inductance:**

Inductance (µH/ft)  
.19

**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/ft)  
17.7

**Nominal Velocity of Propagation:**

VP (%)  
79

**Nominal Delay:**

Delay (ns/ft)  
1.29

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)  
40

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)  
5.3

**Max. Attenuation:**

Attenuation (DS3/4) (dB/100 ft.)	Freq. (MHz)	Attenuation (dB/100 ft.)
0	1.000	0.500
0	5.000	1.100
0	10.000	1.500
0	22.500	2.300
0	50.000	3.400
0	100.000	4.990
0	150.000	6.000

**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:**

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
		5	150	32

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
735C12 0081000	1,000 FT	219.000 LB	GRAY		12#25HLDPE/FHLDPE SH PVCFRPVC
735C12 0082000	2,000 FT	474.000 LB	GRAY		12#25HLDPE/FHLDPE SH PVCFRPVC

Revision Number: 1    Revision Date: 08-01-2013

© 2017 Belden, Inc.  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Belden Wire & Cable:](#)

[735C12 0082000](#) [735C12 0081000](#)