

8407 Multi-Conductor - Four-Conductor Star Quad, Low-Impedance Cable



For more Information
please call

1-800-Belden1



General Description:

16 AWG stranded (65x34) high-conductivity tinned copper conductors, EPDM rubber insulation, rayon braid, TC braid shield (85% coverage), cotton wrap, CPE jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material	Dia. (in.)
4	16	65x34	High Conductivity TC - Tinned Copper	.059

Total Number of Conductors: 4

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
EPDM - Ethylene Propylene Diene Monomer Rubber	0.120

Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	TC - Tinned Copper	85

Outer Shield Separator Material: Cotton Wrap

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
CPE

Overall Cable

Overall Cabling Color Code Chart:

Number	Color
1	Black
2	White
3	Red
4	Green

Overall Cabling Separator Material: Rayon Braid

Overall Nominal Diameter: 0.416 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +60°C

Bulk Cable Weight: 111 lbs/1000 ft.

Max. Recommended Pulling Tension: 162 lbs.

Min. Bend Radius/Minor Axis: 4.250 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

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

8407 Multi-Conductor - Four-Conductor Star Quad, Low-Impedance Cable

MIL Order #39 (China RoHS):	Yes
-----------------------------	-----

Flame Test

UL Flame Test:	VW-1
----------------	------

Plenum/Non-Plenum

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

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
44

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
30

Nom. Cap. Between Cond. in a Quad Config.:

Capacitance (pF/ft)
66

Nominal Velocity of Propagation:

VP (%)
52

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
4

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
2.63

Max. Operating Voltage - UL:

Voltage
600 V RMS

Max. Recommended Current:

Current
5.6 Amps per conductor at 25°C

Other Electrical Characteristic 1: 2/c 13 AWG equivalent DCR when connected to a 3-pin XLR

Notes (Overall)

Notes: Quad connection scheme: The black and red wires (or wires directly opposite one another) are connected together to form one conductor, and similarly the white and green wires (or remaining wires) are connected together to form the second conductor.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8407 010100	100 FT	12.800 LB	BLACK		4 #16 EPDM BRD CPE
8407 010250	250 FT	29.500 LB	BLACK	C	4 #16 EPDM BRD CPE

Notes:
C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 02-18-2015

© 2015 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 73/23/EEC), as amended by directive 93/68/EEC.