

## 8446 Multi-Conductor - Audio, Control, Communication and Instrumentation Cable



For more Information  
please call

1-800-Belden1



### Description:

22 and 18 AWG stranded (7x30 and 16x30) tinned copper conductors cabled, PVC insulation, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Conductors	AWG	Stranding	Conductor Material
4	22	7x30	TC - Tinned Copper
2	18	16x30	TC - Tinned Copper

#### Insulation

##### Insulation Material:

Insulation Material	Wall Thickness (in.)	AWG
PVC - Polyvinyl Chloride	.010	22
PVC - Polyvinyl Chloride	.019	18

#### Outer Shield

##### Outer Shield Material:

Outer Shield Material
Unshielded

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	.032

#### Overall Cable

##### Overall Cabling Lay Length & Direction:

Length (in.)	Twists (ft.)
2.25	5.3

##### Overall Cabling Color Code Chart:

Number	Color	AWG	Group/Cond. Color
1	22-Red	22	Red
2	Green	22	Green
3	Brown	22	Brown
4	Blue. 18-Black	22	Blue
1	White	18	Black
2		18	White

Overall Nominal Diameter:

0.236 in.

### Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2576)
Bulk Cable Weight:	38 lbs/1000 ft.
Max. Recommended Pulling Tension:	78 lbs.
Min. Bend Radius (Install)/Minor Axis:	2.250 in.

## 8446 Multi-Conductor - Audio, Control, Communication and Instrumentation Cable

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMG
CEC/C(UL) Specification:	CMG
AWM Specification:	UL Style 2576 (150 V 80°C)
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):	04/01/2005
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

#### Flame Test

UL Flame Test:	UL1685 FT4 Loading
C(UL) Flame Test:	FT4

#### Plenum/Non-Plenum

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

### Electrical Characteristics (Overall)

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
30

#### Nom. Capacitance Cond. to Other Cond. & Ground:

Capacitance (pF/ft)
54

#### Nom. Conductor DC Resistance:

Description	DCR @ 20°C (Ohm/1000 ft)
22 AWG	15.5
18 AWG	6.8

#### Max. Operating Voltage - UL:

Voltage
150 V RMS (UL AWM Style 2576)
300 V RMS

#### Max. Recommended Current:

Description	Current
22 AWG	2.5 Amps per conductor @ 25°C
18 AWG	5.6 Amps per conductor @ 25°C

### Related Documents:

No related documents are available for this product

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8446 060U1000	1,000 FT	41.000 LB	CHROME		4#22 2#18 PVC PVC
8446 060U500	500 FT	21.500 LB	CHROME		4#22 2#18 PVC PVC
8446 060100	100 FT	4.700 LB	CHROME		4#22 2#18 PVC PVC
8446 0601000	1,000 FT	43.000 LB	CHROME	C	4#22 2#18 PVC PVC
8446 060500	500 FT	21.500 LB	CHROME	C	4#22 2#18 PVC PVC

## 8446 Multi-Conductor - Audio, Control, Communication and Instrumentation Cable

**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 2    Revision Date: 09-18-2008

© 2012 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.