

8786 Multi-Conductor - Special Audio, Communication and Instrumentation Cable



For more Information
please call

1-800-Belden1



General Description:

24 and 22 AWG stranded (7x32 and 7x30) TC conductors, PVC insulation, (4) conductors cabled, 22 AWG stranded TC drain wire, PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Conductors | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------------|-----|-----------|--------------------|------------|
| 4 | 24 | 7x32 | TC - Tinned Copper | .024 |
| 2 | 22 | 7x30 | TC - Tinned Copper | .030 |

Total Number of Conductors: 6

Insulation

Insulation Material:

| Insulation Material | Wall Thickness (in.) |
|--------------------------|----------------------|
| PVC - Polyvinyl Chloride | .015 |

Insulation Resistance: 100 Megaohms/1000 ft. @ 500 V DC

Inner Shield

Inner Shield Material:

| Coverage (%) |
|--------------|
| 100 |

Inner Shield Material (Multi-AWG):

| AWG | Inner Shield Trade Name | Type | Inner Shield Material | Coverage (%) | Description |
|-----|-------------------------|------|------------------------------|--------------|-------------|
| 24 | Beldfoil® (Z-Fold®) | Tape | Aluminum Foil-Polyester Tape | 100 | Over Quad |
| 22 | | | Unshielded | | Singles |

Inner Shield Drain Wire AWG:

| AWG |
|-----|
| 22 |

Inner Shield Drain Wire Stranding: 7x30

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material | Nom. Wall Thickness (in.) |
|--------------------------|---------------------------|
| PVC - Polyvinyl Chloride | .028 |

Overall Cable

Overall Cabling Color Code Chart:

| Number | AWG | Group/Cond. Color |
|--------|-----|-------------------|
| 1 | 24 | Blue Quad |
| 2 | 22 | Blue |
| 3 | 22 | White |

Overall Nominal Diameter: 0.236 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +90°C

Non-UL Temperature Rating: 90°C

Bulk Cable Weight: 30 lbs/1000 ft.

Max. Recommended Pulling Tension: 40.200 lbs.

Min. Bend Radius/Minor Axis: 2.500 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

8786 Multi-Conductor - Special Audio, Communication and Instrumentation Cable

| | |
|---------------------------------------|------------|
| NEC/(UL) Specification: | CM |
| NEC Articles: | 800 |
| CEC/C(UL) Specification: | CM |
| 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): | 04/01/2005 |
| EU Directive 2002/96/EC (WEEE): | Yes |
| EU Directive 2003/11/EC (BFR): | Yes |
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| MIL Order #39 (China RoHS): | Yes |

Flame Test

| | |
|----------------|-------------------|
| UL Flame Test: | UL1685 UL Loading |
|----------------|-------------------|

Plenum/Non-Plenum

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

Electrical Characteristics (Overall)

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

| |
|---------------------|
| Capacitance (pF/ft) |
| 20 |

Nominal Velocity of Propagation:

| |
|--------|
| VP (%) |
| 65 |

Nom. Conductor DC Resistance:

| Description | DCR @ 20°C (Ohm/1000 ft) |
|-------------|--------------------------|
| 24 AWG | 23.9 |
| 22 AWG | 15 |

Nom. Inner Shield DC Resistance:

| Description | DCR @ 20°C (Ohm/1000 ft) |
|-------------|--------------------------|
| 24 AWG Quad | 11.9 |

Max. Operating Voltage - UL:

| |
|-----------|
| Voltage |
| 300 V RMS |

Max. Recommended Current:

| |
|--|
| Current |
| 1.5 Amps per conductor @ 25°C (24 AWG) |
| 2.0 Amps per conductor @ 25°C (22 AWG) |

Other Electrical Characteristic 1: 2/c 21 AWG equivalent DCR when connected to a 3-pin XLR

Notes (Overall)

Notes: Inner Beldfoil® shield over 24 AWG quads. (4) conductors cabled under 100% Beldfoil® shield; (2) conductors unshielded. Quad connection scheme: The black & red wires (or wires directly opposite one another) are connected together to form one conductor, and similarly the green & yellow wires (or remaining wires) are connected together to form the second conductor.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------------|--------|-------------|--------|-------|---------------------|
| 8786 060U500 | 500 FT | 17.000 LB | CHROME | | 4 #24, 2 #22 FS PVC |
| 8786 060500 | 500 FT | 17.000 LB | CHROME | C | 4 #24, 2 #22 FS PVC |

Notes:
C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 08-27-2012

© 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

8786 Multi-Conductor - Special Audio, Communication and Instrumentation Cable

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.