

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. (mm)
4	24	7x32	TC - Tinned Copper	0.6096
2	22	7x30	TC - Tinned Copper	0.762

Total Number of Conductors: 6

Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.381

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 (mm)
PVC - Polyvinyl Chloride	0.7112

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: 5.994 mm

Mechanical Characteristics (Overall)

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

METRIC MEASUREMENT VERSION

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

Non-UL Temperature Rating:	90°C
Bulk Cable Weight:	44.646 Kg/Km
Max. Recommended Pulling Tension:	178.818 N
Min. Bend Radius/Minor Axis:	63.500 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

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
MII Order #39 (China RoHS):	Yes

Flame Test

UL Flame Test:	UL1685 UL Loading
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)

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

Capacitance (pF/m)
65.62

Nominal Velocity of Propagation:

VP (%)
65

Nom. Conductor DC Resistance:

Description	DCR @ 20°C (Ohm/km)
24 AWG	78.4159
22 AWG	49.215

Nom. Inner Shield DC Resistance:

Description	DCR @ 20°C (Ohm/km)
24 AWG Quad	39.0439

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)

METRIC MEASUREMENT VERSION

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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.

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