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1-800-Belden1



General Description:

20 AWG stranded (7x28) high-conductivity TC conductors, FEP Teflon® insulation, TC braid shield (85% coverage), FEP Teflon® jacket.

Usage (Overall)

Suitable Applications: Vertical hanging microphones

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (mm)
1	20	7x28	TC - Tinned Copper	0.965

Total Number of Conductors: 2

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (mm)	Dia. (mm)
Teflon®	FEP - Fluorinated Ethylene Propylene	0.457	1.880

Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	TC - Tinned Copper	85.000

Outer Jacket

Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material	Nom. Wall Thickness (mm)
Teflon®	FEP - Fluorinated Ethylene Propylene	0.356

Overall Cable

Overall Nominal Diameter: 5.029 mm

Pair

Pair Color Code Chart:

Number	Color
1	Clear & Blue

Mechanical Characteristics (Overall)

Operating Temperature Range: -70°C To +200°C

Bulk Cable Weight: 50.599 Kg/Km

Max. Recommended Pulling Tension: 302.478 N

Min. Bend Radius/Minor Axis: 50.800 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

EU Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: No

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

8412P Multi-Conductor - Plenum Microphone Cable

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

Flame Test

UL Flame Test: NFPA 262

CSA Flame Test: FT6

Suitability

Suitability - Indoor: Yes

Suitability - Outdoor: Yes

Suitability - Aerial: Yes

Suitability - Burial: Yes

Plenum/Non-Plenum

Plenum (Y/N): Yes

Non-Plenum Number: 8412

Electrical Characteristics (Overall)

Nom. Inductance:

Inductance ($\mu\text{H/m}$)

0.656

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

60.370

Nominal Velocity of Propagation:

VP (%)

69.500

Nominal Delay:

Delay (ns/m)

4.790

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

31.170

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

12.796

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1.000	1.969
10.000	6.890
50.000	16.405
100.000	24.608
200.000	36.091
400.000	52.496

Max. Operating Voltage - UL:

Voltage

300 V RMS

Max. Operating Voltage - Non-UL:

Voltage

600 V RMS

Notes (Overall)

Notes: Teflon® is a registered trademark of E.I. DuPont de Nemours and Co. used under license by Belden, Inc.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8412P 0091000	1,000 FT	39.000 LB	WHITE		2 #20 FEP BRD FEP 78 OHM
8412P 009500	500 FT	19.500 LB	WHITE		2 #20 FEP BRD FEP 78 OHM
8412P 0101000	1,000 FT	39.000 LB	BLACK		2 #20 FEP BRD FEP 78 OHM
8412P 010500	500 FT	19.500 LB	BLACK		2 #20 FEP BRD FEP 78 OHM

METRIC MEASUREMENT VERSION

8412P Multi-Conductor - Plenum Microphone Cable

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