Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



8412P Multi-Conductor - Plenum Microphone Cable



For more Information please call

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

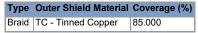
Insulation

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:



Outer Jacket

Outer Jacket Material:

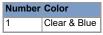
Outer Jacket Trade Name		Outer Jacket Material	Nom. Wall Thickness (mm)
	Teflon®	FEP - Fluorinated Ethylene Propylene	0.356

Overall Cable

Overall Nominal Diameter: 5.029 mm

Pair

Pair Color Code Chart:



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

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Yes
No
Yes
Yes
04/01/2005
Yes
Yes
Yes
Yes
NFPA 262
FT6
Yes
Yes
Yes
Yes
Yes
8412

Electrical Characteristics (Overall)

Nom. Inductance:



Nom. Capacitance Conductor to Conductor:



Nominal Velocity of Propagation:



Nominal Delay:



Nom. Conductor DC Resistance:



Nominal Outer Shield DC Resistance:



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:

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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
8412P 009500	500 FT	19.500 LB	WHITE		2 #20 FEP BRD FEP
8412P 0101000	1,000 FT	39.000 LB	BLACK		2 #20 FEP BRD FEP
8412P 010500	500 FT	19.500 LB	BLACK		2 #20 FEP BRD FEP

Revision Number: 0 Revision Date: 05-23-2017

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