Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION



83509 Multi-Conductor - Audio, Control and Instrumentation Cable

For more Information please call

1-800-Belden1



General Description:

24 AWG stranded (7x32) TC conductors, conductors cabled, plenum, FEP insulated, overall Beldfoil® (100% coverage) + TC braid shield (85% coverage), FEP jacket.

sical Characteristics (Over	rall)			
nductor	,			
AWG:				
# Conductors AWG Stranding Cond	ductor Material			
9 24 7x32 TC -	Tinned Copper			
Total Number of Conductors:	9			
sulation				
nsulation Material:				
Insulation Material	Wall Thickness (mm)			
FEP - Fluorinated Ethylene Propylene	0.1524			
ter Shield Duter Shield Material:				
Layer # Outer Shield Trade Name T	who Outor Shield Material	Coverage (%)		
	Tape Aluminum Foil-Polyester Tape	,		
	Braid TC - Tinned Copper	85		
		00		
iter Jacket				
Outer Jacket Material:				
JULEI JACKEL WALEI IAI.				
	Nom, Wall Thickness (mm)			
Outer Jacket Material FEP - Fluorinated Ethylene Propylene	Nom. Wall Thickness (mm) 0.3556			
Outer Jacket Material	0.3556			
Outer Jacket Material FEP - Fluorinated Ethylene Propylene erall Cable Overall Cabling Color Code Chart: Number Color	0.3556			
Outer Jacket Material FEP - Fluorinated Ethylene Propylene erall Cable Overall Cabling Color Code Chart: Number Color 1 Black	0.3556			
Outer Jacket Material FEP - Fluorinated Ethylene Propylene erall Cable Overall Cabling Color Code Chart: Number Color 1 Black 2 White	0.3556			
Outer Jacket Material FEP - Fluorinated Ethylene Propylene erall Cable Overall Cabling Color Code Chart: Number Color 1 Black 2 White 3 Red	0.3556			
Number Color 1 Black 2 White 3 Red 4 Green	0.3556			
Number Color 1 Black 2 White 3 Red 4 Green 5 Orange	0.3556			
Number Color 1 Black 2 White 3 Red 4 Green 5 Orange 6 Blue	0.3556			
Number Color 1 Black 2 White 3 Red 4 Green 5 Orange 6 Blue 7 White/Black	0.3556			
Number Color 1 Black 2 White 3 Red 4 Green 5 Orange 6 Blue 7 White/Black 8 Red/Black	0.3556			
Number Color 1 Black 2 White 3 Red 4 Green 5 Orange 6 Blue 7 White/Black	0.3556			
Number Color 1 Black 2 White 3 Red 4 Green 5 Orange 6 Blue 7 White/Black 8 Red/Black	0.3556			
Outer Jacket Material FEP - Fluorinated Ethylene Propylene erall Cable Overall Cabling Color Code Chart: Number Color 1 Black 2 White 3 Red 4 Green 5 Orange 6 Blue 7 White/Black 8 Red/Black 9 Green/Black	0.3556 : 4.775 mm			
Outer Jacket Material FEP - Fluorinated Ethylene Propylene erall Cable Overall Cabling Color Code Chart: Number Color 1 Black 2 White 3 Red 4 Green 5 Orange 6 Blue 7 White/Black 8 Red/Black 9 Green/Black	0.3556 : 4.775 mm	200°C		
Outer Jacket Material FEP - Fluorinated Ethylene Propylene erall Cable Overall Cabling Color Code Chart: Number Color 1 Black 2 White 3 Red 4 Green 5 Orange 6 Blue 7 White/Black 8 Red/Black 9 Green/Black	0.3556 : 4.775 mm			
Outer Jacket Material FEP - Fluorinated Ethylene Propylene erall Cable Overall Cabling Color Code Chart: Number Color 1 Black 2 White 3 Red 4 Green 5 Orange 6 Blue 7 White/Black 9 Green/Black Overall Nominal Diameter: chanical Characteristics (O Operating Temperature Range:	0.3556			
Outer Jacket Material FEP - Fluorinated Ethylene Propylene erall Cable Overall Cabling Color Code Chart: Number Color 1 Black 2 White 3 Red 4 Green 5 Orange 6 Blue 7 White/Black 8 Red/Black 9 Green/Black Overall Nominal Diameter: Chanical Characteristics (O Operating Temperature Range: Bulk Cable Weight:	0.3556			

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Applicable Specifications and Agency Con	npliance (Overall)
Applicable Standards & Environmental Progra	ms
NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
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:	NFPA 262
CSA Flame Test:	FT6
Plenum/Non-Plenum	
Plenum (Y/N):	Yes
Electrical Characteristics (Overall)	
Nom. Capacitance Conductor to Conductor:	
Capacitance (pF/m) 65.62	
Nom. Capacitance Cond. to Other Conductor & Shie	ld:
Capacitance (pF/m) 118.116	
Nom. Conductor DC Resistance:	
DCR @ 20°C (Ohm/km) 78.744	
Nominal Outer Shield DC Resistance:	
DCR @ 20°C (Ohm/km) 16.405	
Max. Operating Voltage - UL:	
Voltage 300 V RMS	
Max. Recommended Current:	
Current 1.4 Amps per conductor @ 25°C	
Notes (Overall)	

Notes: Plenum Cables, except for Flamarrest® jacket, are suitable for Outdoor and Direct Burial application.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
83509 002100	100 FT	5.300 LB	RED	С	9 #24 FEP SHLD FEP
83509 0021000	1,000 FT	38.000 LB	RED	С	9 #24 FEP SHLD FEP
83509 002500	500 FT	18.500 LB	RED	С	9 #24 FEP SHLD FEP

Notes:

C = CRATE REEL PUT-UP.



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