Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

7936A Multi-Conductor - Category 5e Shielded Low Smoke Zero Halogen



For more Information please call

1-800-Belden1



General Description:

24 AWG Bonded-Pairs solid bare copper conductors, polyolefin insulation, overall Beldfoil® shield (100% coverage), drain wire, low smoke zero halogen. Sequential marking at two foot intervals

Physical Characteristics (Overall)	
Conductor	
AWG:	
# Pairs AWG Stranding Conductor Material 4 24 Solid BC - Bare Copper	
Total Number of Conductors:	8
Insulation Insulation Material:	
Insulation Material Wall Thickness (mm)	
PO - Polyolefin 0.254	
Outer Shield Outer Shield Material:	
Outer Shield Trade Name Type Outer Shield Material	Coverage (%)
Beldfoil® Tape Aluminum Foil-Polyester	r Tape 100
Outer Shield Drain Wire AWG: AWG Stranding Drain Wire Conductor Material	
24 7x32 TC - Tinned Copper	
Outer Jacket	
Outer Jacket Material:	
Outer Jacket Material	
LSZH - Low Smoke Zero Halogen	
Outer Jacket Ripcord:	No
Overall Cable	
Overall Nominal Diameter:	6.731 mm
Pair Pair Color Code Chart:	
Number Color	
1 White/Blue Stripe & Blue	
2 White/Orange Stripe & Orange 3 White/Green Stripe & Green	
4 White/Brown Stripe & Brown	
Mechanical Characteristics (Overall)	
Storage Temperature Range:	-10°C To +75°C
Installation Temperature Range:	+5°C To +75°C
Operating Temperature Range:	-10°C To +75°C
Bulk Cable Weight:	50.599 Kg/Km
Max. Recommended Pulling Tension:	177.928 N
Min. Bend Radius/Minor Axis:	12.700 mm
Applicable Specifications and Agency Complia	ance (Overall)
Applicable Standards & Environmental Programs	
NEC/(UL) Specification:	CM, UL444
CEC/C(UL) Specification:	CMG
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2000/53/EC (ELV):	Yes

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EU Directi	ve 2002/95/EC (RoHS):		Yes					
EU RoHS	Compliance Date (mm/dd/yyyy	<i>ı</i>):	08/19/2	08/19/2006				
EU Directi	ve 2002/96/EC (WEEE):		Yes					
EU Directi	ve 2003/11/EC (BFR):		Yes					
	5 (CJ for Wire & Cable):		Yes					
-	#39 (China RoHS):		Yes					
Other Spe				WC-63 1 Catego	ory 5e, UL verified to	Category 5e		
Applicable P				The bein bullege				
Country www.beld	en.com/p							
lame Test								
UL Flame	Test:		UL1685	5 UL Loading				
CSA Flam	e Test:		FT4					
uitability								
Suitability	- Outdoor:		Yes					
Sunlight F	Resistance:		Yes					
Oil Resist	ance:		No					
lenum/Non-	Plenum							
Plenum (Y	//N):		No					
VP (%) 70 aximum Dela 538 @ 100M ax. Delay (ns/10 538 @ 100M ax. Delay Skew 45 aximum Cond DcR @ 20°C 9.38 ax. Operating Voltage 300 V RMS aximum DCR DCR Unbala 3	Capacitance Unbalance (pF/10 ity of Propagation: y: 00 m) HHz ww: (ns/100 m) ductor DC Resistance: C (Ohm/100 m) J Voltage - UL: Unbalanced: ance @ 20°C (%)		330					
	haracteristics-Premise Electrical Table 1:	(Overall)						
	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. ACR (dB)	Min. PSACR (dB)	Min RL (dB)	Min. SRL (dB)	
1	2.0		62.3	63.0	60.0	20.0	23	
4			53.3	51.0	49.0	23.0	23.0	
8 10			48.8	46.0	43.0 41.0	24.5 25.0	24.5 25.0	
10		50.3 47.3	47.3 44.3	43.0 39.0	36.0	25.0	25.0	
20			42.8	36.5	33.5	25.0	25.0	
25	10.4		41.3	33.9	30.9	24.3	24.3	
31.25		42.9	39.9	31.0	28.0	23.6	23.6	
1625	17.0	38.4	35.4	122.0	1140	121.5	21.5	

32.4 Premise Cable Electrical Table 2:

17.0

22.0

62.5

100

200

38.4

35.3

35.4

32.3

27.8

19.0

11.0

1.0

21.5

20.1

21.5

20.1

15.0

22.0

14.0

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Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 15	100 ± 15	63.8	60.8
4	100 ± 15	100 ± 15	51.7	48.7
8	100 ± 15	100 ± 15	45.7	42.7
10	100 ± 15	100 ± 15	43.8	40.8
16	100 ± 15	100 ± 15	39.7	36.7
20	100 ± 15	100 ± 15	37.7	34.7
25	100 ± 15	100 ± 15	35.8	32.8
31.25	100 ± 15	100 ± 15	33.9	30.9
62.5	100 ± 15	100 ± 15	27.8	24.8
100	100 ± 15	100 ± 15	23.8	20.8
200	100 ± 25			14.7

Notes (Overall)

Notes: Operating temperatures are subject to length de-rating. Cable passes -10C Cold Bend per UL 1581.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7936A 0101000	1,000 FT	39.000 LB	BLACK	С	4 PR #24 PP FS FRNHPO
7936A 0102000	2,000 FT	76.000 LB	BLACK	С	4 PR #24 PP FS FRNHPO

Notes:

C = CRATE REEL PUT-UP.

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