



## Product Details

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**Multi-Conductor - Category 5e Low Smoke Zero Halogen**  
24 AWG Bonded-Pairs solid bare copper conductors, polyolefin insulation, sunlight- and oil-resistant LSZH jacket, rip cord. Sequential marking at two foot intervals.

For more  
Information  
please call

1-800-  
Belden1

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### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7935A 0101000	1,000 FT	24.000 LB	BLACK C	4 PR #24 PP	FRNHPO
7935A 0102000	2,000 FT	44.000 LB	BLACK C	4 PR #24 PP	FRNHPO

### Notes:

C = CRATE REEL PUT-UP.

### Physical Characteristics (Overall)

#### Conductor

#### AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
4	24	Solid	BC - Bare Copper	.020

#### Insulation

##### Insulation Material:

Insulation Material	Wall Thickness (in.)	Dia. (in.)
PO - Polyolefin	.009	.035

#### Outer Shield

##### Outer Shield Material:

##### Outer Shield Material

Unshielded

#### Outer Jacket

##### Outer Jacket Material:

##### Outer Jacket Material

LSZH - Low Smoke Zero Halogen

Outer Jacket Ripcord: Yes

#### Overall Cabling

Overall Nominal Diameter: 0.230 in.

#### 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:	19 lbs/1000 ft.
Max. Recommended Pulling Tension:	40 lbs.
Min. Bend Radius (Install)/Minor Axis:	0.250 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CM, UL444
CEC/C(UL) Specification:	CM
Other Standards:	11801 Category 5
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	08/30/2006
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
Telecommunications Standards:	568-B.2 Category 5e
Other Specification:	NEMA WC-63.1 Category 5e, UL verified to Category 5e, Ethernet/IP™ Compliant

#### Flame Test

UL Flame Test:	UL1666 Vertical Tray
CSA Flame Test:	FT1

#### Suitability

Suitability - Outdoor:	Yes
Sunlight Resistance:	Yes
Oil Resistance:	No

#### Plenum/Non-Plenum

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

#### Nom. Mutual Capacitance:

Capacitance (pF/ft)

15

Maximum Capacitance Unbalance (pF/100 m): 66

#### Nominal Velocity of Propagation:

VP (%)

70

#### Maximum Delay:

Delay (ns/100 m)

510

#### Max. Delay Skew:

Delay Skew (ns/100 m)

25

#### Maximum Conductor DC Resistance:

**DCR @ 20°C (Ohm/100 m)**

9

**Max. Operating Voltage - UL:****Voltage**

300 V RMS

**Maximum DCR Unbalanced:****DCR Unbalance @ 20°C (%)**

3

**Electrical Characteristics-Premise (Overall)****Premise Cable Electrical Table 1:**

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. ACR (dB)	Min. PSACR (dB)	Min RL (dB)
1	2.0	65.3	65.3	63.3	63.3	20.0
4	4.0	56.3	56.3	52.3	52.3	23.6
8	5.7	51.8	51.8	46.1	46.1	25.4
10	6.4	50.3	50.3	43.9	43.9	26.0
16	8.1	47.3	47.3	39.1	39.1	26.0
20	9.2	45.8	45.8	35.2	35.2	26.0
25	10.3	44.3	44.3	34.1	34.1	25.5
31.25	11.6	42.9	42.9	31.3	31.3	25.0
62.5	16.8	38.4	38.4	21.6	21.6	23.5
100	21.7	35.3	35.3	17.1	17.1	22.5
155	27.7	32.5	32.5	4.7	4.7	19.0
200	32.0	30.8	30.8	3.0	3.0	19.0
250	36.4	29.3	29.3	>0	>0	18.0
300	40.5	28.2	28.2	>0	>0	18.0
310	41.3	27.9	27.9			18.0
350	44.3	27.2	27.2			17.0

**Premise Cable Electrical Table 2:**

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 12	95-110	63.8	60.8
4	100 ± 12	95-110	51.7	48.7
8	100 ± 12	95-107	45.7	42.7
10	100 ± 12	95-107	43.8	40.8
16	100 ± 12	95-107	39.7	36.7
20	100 ± 12	95-107	37.7	34.7
25	100 ± 15	95-107	35.8	32.8
31.25	100 ± 15	95-107	33.9	30.9
62.5	100 ± 15	95-107	27.8	24.8
100	100 ± 15	95-107	23.8	20.8
155	100 ± 18	100 ± 10	19.9	16.9
200	100 ± 20	100 ± 10	17.7	14.7
250	100 ± 20	100 ± 10	15.8	12.8
300	100 ± 20	100 ± 10	14.2	11.2
310	100 ± 20	100 ± 10	13.9	10.9
350	100 ± 22	100 ± 10	12.9	9.9

**Notes (Overall)**

**Notes:** US Patent #'s 5, 606, 151; 5, 734, 126. EtherNet IP is a trademark of ControlNet International, Ltd. under license by Open DeviceNet Vendor Association, Inc. Operating temperatures are subject to length de-rating. Cable passes -40C Cold Bend per UL 1581.

**Close**

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