# **Detailed Specifications & Technical Data**

#### **ENGLISH MEASUREMENT VERSION**



## 7949A Composite - Composite Data, Audio, Video, Security and Control Cable



For more Information please call

1-800-Belden1



#### **General Description:**

Composite - (1) Cat 5e 4-bonded-pair UTP 24 AWG, (4)16 AWG stranded (65x34) bare copper conductors, polyolefin insulation (pairs), PVC insulation (conductors), overall F-R PVC jacket. Jacket sequentially marked.

## **Usage (Overall)**

Suitable Applications:

Keypads, Control Panels, Touch Panel Controls, Home Theater, A/V Equipment, Projectors, Screens, Window Treatments, Lighting, Security, Security Cameras, Home Automation, Energy Control

## **Twisted Pair**

#### **Physical Characteristics**

#### Conductor

AWG:

# Pairs	AWG	•	Conductor Material	` '
4	24	Solid	BC - Bare Copper	0.020

#### Insulation

Insulation Material:

Insulation Material	Dia. (in.)
PO - Polyolefin	0.038

## Twisted Pair Color Code Chart:

	Number		
• .		White/Blue Stripe and Blue	
		White/Orange Stripe and Orange	
		White/Green Stripe and Green	
	4	White/Brown Stripe and Brown	

## **Outer Jacket**

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Diameter:



Outer Jacket Ripcord:

Yes

Outer Jacket Color Code Chart:



#### **Electrical Characteristics**

## Premise Cable Electrical Table 1:

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. PSNEXT (dB)	Min. PSACR (dB)	Min RL (dB)
1.0	2.000	62.3	60	20.000
4.0	4.100	53.3	49	23.000
8.0	5.800	48.8	43	24.500
10.0	6.500	47.3	41	25.000
16.0	8.200	44.3	36	25.000
20.0	9.300	42.8	34	25.000
25.0	10.400	41.3	31	24.300
31.25	11.700	39.9	28	23.600
62.5	17.000	35.4	19	21.500
100	22.000	32.3	11	20.100

#### Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Min. PSELFEXT (dB)
1.0	100 ± 15	60.8
4.0	100 ± 15	48.7
8.0	100 ± 15	42.7

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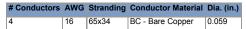
10.0	100 ± 15	40.8
16.0	100 ± 15	36.7
20.0	100 ± 15	34.7
25.0	100 ± 15	32.8
31.25	100 ± 15	30.9
62.5	100 ± 15	24.8
100	100 ± 15	20.8

#### **Multi Conductor**

#### **Physical Characteristics**

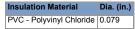
Conductor

AWG:



#### Insulation

Insulation Material:



Insulation Color Code Chart:



#### **Electrical Characteristics**

Nom. Capacitance Conductor to Conductor:



Nominal Velocity of Propagation:

**VP (%)** 70.000

Maximum Conductor DC Resistance:



Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

Current
5 Amps per conductor @ 25°C

Other Electrical Characteristic 1:

Third party verified to TIA/EIA-568/B.2, Category 5e

## **Physical Characteristics (Overall)**

Conductor

Outer Shield

Outer Shield Material:

Outer Shield Material Unshielded

**Outer Jacket** 

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Ripcord:

Yes

**Overall Cable** 

Overall Nominal Diameter: 0.355 in.

**Mechanical Characteristics (Overall)** 

Operating Temperature Range: -20°C To +75°C

Bulk Cable Weight: 89 lbs/1000 ft.

Max. Recommended Pulling Tension: 160 lbs.

Min. Bend Radius/Minor Axis: 4.500 in.

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## **Detailed Specifications & Technical Data**

#### **ENGLISH MEASUREMENT VERSION**



## 7949A Composite - Composite Data, Audio, Video, Security and Control Cable

oplicable Standards & Environmental Programs		
NEC/(UL) Specification:	CMR	
CEC/C(UL) Specification:	CMG	
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	
Other Specification:	NEMA WC-63.1, Category 5e	
ame Test		
UL Flame Test:	UL1666 Vertical Shaft	
CSA Flame Test:	FT4	
enum/Non-Plenum		
Plenum (Y/N):	No	

### **Electrical Characteristics (Overall)**

Max. Operating Voltage - UL:

Voltage 300 V RMS

### Notes (Overall)

Notes: Overall jacket sequentially marked.

## **Put Ups and Colors:**

Item# Putup Ship Weight Color Notes Ite	Item Desc
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Revision Number: 0 Revision Date: 08-05-2013

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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).

04-25-2017

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