

**Detailed Specifications &
Technical Data**



549945 Composite - New Generation®

	<p>For more information please call 1-800-Belden1</p> <p><u>See Put-ups and Colors</u></p>
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Description:

Coax: Bare copper conductor, foam polyolefin insulation, bare copper braid shield, PVC jacket. Pair: PVC insulation, PVC jacket. Coax and pair in Siamese configuration. Sequential footage marking every two feet.

SUITABLE APPLICATIONS:

Suitable Applications	CCTV plus Audio, Pan and Tilt CCTV Control
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PHYSICAL CHARACTERISTICS:

COAX:

Number of Coax	1
RG Type (Single Coax)	59/U

CONDUCTOR :

Coax AWG	20
Coax Stranding	Solid
Coax Conductor Diameter	.032 in.
Coax Conductor Material	BC - Bare Copper

INSULATION :

Coax Insulation Material	Gas-injected FHDPE - Foam High Density Polyethylene
Coax Insulation Diameter	.145 in.

INNER SHIELD :

Coax Inner Shield Type	Braid
Coax Inner Shield Material	BC - Bare Copper
Coax Inner Shield % Coverage	95 %

TWISTED PAIR CABLE(S):

CONDUCTOR :

Number of Pairs	1
Twisted Pair AWG	18
Twisted Pair Stranding	7x26
Twisted Pair Conductor Diameter	.046 in.
Twisted Pair Conductor Material	BC - Bare Copper

INSULATION :

Twisted Pair Insulation Material	PVC - Polyvinyl Chloride
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Twisted Pair Insulation Diameter .066 in.

Twisted Pair Color Code Chart :

Number	Color
1	Black & Red

OVERALL CABLING:

CONDUCTOR :

Total Number of Conductors 3

OUTER SHIELD :

Overall Cabling Outer Shield Material Unshielded

OUTER JACKET :

Overall Cabling Outer Jacket Material PVC - Polyvinyl Chloride

OVERALL DIAMETER :

Overall Composite Cabling Nominal Diameter .232 x .460 in.

MECHANICAL CHARACTERISTICS:

OVERALL CABLING:

Overall Cabling Operating Temperature Range -30°C To +80°C

Overall Cabling UL Temperature Rating 75°C

Overall Cabling Bulk Cable Weight 54 lbs/1000 ft.

Overall Cabling Max. Recommended Pulling Tension 102 lbs.

Overall Cabling Min. Bend Rad.(Install)/Minor Axis 2.5 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

OVERALL CABLING:

APPLICABLE STANDARDS :

Overall Cabling NEC/(UL) Specification CM

Overall Cabling NEC Articles 800

Overall Cabling CEC/C(UL) Specification CM

FLAME TEST :

Overall Cabling UL Flame Test UL1581 Vertical Tray

Overall Cabling C(UL) Flame Test FT1

SUITABILITY :

Overall Cabling Suitability - Indoor Yes

Overall Cabling Suitability - Outdoor Yes

Overall Cabling Suitability - Aerial Yes

PLENUM/NON-PLENUM :

Overall Cabling Plenum (Y/N) N

Overall Cabling Plenum Number 649948

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ELECTRICAL CHARACTERISTICS:

COAX:

Coax Nom. Characteristic Impedance	75 Ohms
Coax Nom. Inductance	.097 μ H/ft
Coax Nom. Capacitance Conductor to Shield	16.3 pF/ft
Coax Nominal Velocity of Propagation	83 %
Coax Nominal Delay	1.22 ns/ft
Coax Nom. Conductor DC Resistance @ 20 Deg. C	10.0 Ohms/1000 ft
Coax Nom. Inner Shield DC Resistance	3.5 Ohms/1000 ft

Coax Nom. Attenuation :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	1			.30
	5			.65
	10			.90
	50			1.90
	100			2.60
	200			3.60
	400			5.00
	700			7.00
	900			8.00
	1000			8.50

Coax Max. Operating Voltage - UL 300 V RMS

MULTICONDUCTOR CABLE(S):

Multi-Conductor Nom. Cap. Cond. to Cond. @ 1 kHz 30 pF/ft

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
549945 0091000	1 #18 PR, 1 RG-59/U COAX	1000	60	WHITE	C
549945 009500	1#18,1RG-59/U COAX	500	30	WHITE	C
549945 0101000	1#18,1RG-59/U COAX	1000	60	BLACK	C
549945 010500	1#18,1RG-59/U COAX	500	30	BLACK	C

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 10-27-2004

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BELDENCable™

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