Belden

TECHNICAL DATA SHEET

code **449945**

version 1

date 2005-08-22

page 1/2

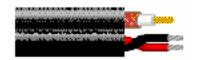
449945 Composite

APPLICATION

CCTV plus Audio, Pan and Tilt CCTV Control.

SUITABILITY

Indoor, Outdoor, Aerial



CONSTRUCTION

1. COAX 59/U

1.1. Conductor

nominal conductor diameter 0.813 mm (AWG20) Material solid bare copper

1.2. Dielectric

Material Foamed PE Nominal diameter over dielectric 3.68mm

1.3. Shield

Type Braid
Material Bare – Cu
Coverage 95%

2. TWISTED PAIR

2.1. Conductor

Nominal conductor diameter 1.17 mm (AWG18)

Material stranded bare copper (7xAWG26)

2.2. Insulation

Material PE

 $\begin{array}{ll} \mbox{Diameter over insulation} & 1.70 \pm 0.05 \mbox{ mm} \\ \mbox{Nominal wallthickness} & 0.25 \mbox{ mm} \\ \mbox{Colour of insulation} & \mbox{black and red} \end{array}$

3. Sheath

MaterialFRNCColourGreyNominal thickness of sheath0.38 mmNominal diameter over sheath5.9 x 11.7 mm



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page **2/2**

ELECTRICAL REQUIREMENTS AND TEST METHODS COAX

Nom. characteristic impedance75 Ω Nominal resistance conductor32.81 Ω /kmNominal resistance shield11.484 Ω /kmNom. capacitance cond. to shield54.3 pF/mNominal delay4.1 ns/mNominal velocity of propagation83 %

Testvoltage conductor-conductor 2500 VDC, 3 seconds Testvoltage conductor-screen 2500 VDC, 3 seconds

Voltage rating 300 V RMS

Freq. (MHz)	1	5	10	50	100	200	400	700	900	1000
Nom. Att. (dB/100 m)	0.98	2.13	2.95	6.23	8.53	11.8	16.4	23.0	26.2	27.9

TWISTED PAIR

Nominal resistance conductor 21.3 Ω /km Nom. capacitance conductor to conductor @ 1kHz 98.4 pF/m

Testvoltage conductor-conductor 2500 VDC, 3 seconds

Voltage rating 300 V RMS

Mechanical and physical:

Temperature range processing and operating

-30 to +70 °C

Temperature range storage

Minimum bending/setting radius

5*D/10*D

Maximum pulling tension

Halogen free according to

IEC 60754-1

Non dense smoke according to IEC 61034-1 and 61034-2

Non corrosive gas according to IEC 60754-2 Flame Retardant according to IEC 60332-1

MARKING

NEW GENERATION(R) BY BELDEN 449945 HALOGEN FREE 2C18 1C20 70C +sequential length marking