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APPLICATION

CCTV plus Audio, Pan and Tilt CCTV Control.

SUITABILITY

Indoor, Outdoor, Aerial



CONSTRUCTION

1. COAX 59/U

1.1. Conductor

Nominal conductor diameter	0.81 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
Diameter over insulation	1.70 ± 0.05 mm
Nominal wall thickness	0.25 mm
Colour of insulation	black and red

3. Sheath

Material	FRNC
Colour	Grey
Nominal thickness of sheath	0.38 mm
Nominal diameter over sheath	5.9 x 11.7 mm

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ELECTRICAL REQUIREMENTS AND TEST METHODS

COAX

Nom. characteristic impedance	75 Ω
Nominal resistance conductor	32.8 Ω/km
Nominal resistance shield	11.484 Ω/km
Nom. capacitance cond. to shield	54.3 pF/m
Nominal delay	4.1 ns/m
Nominal velocity of propagation	83 %
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	-30 to +70 °C
Minimum bending/setting radius	5*D/10*D
Maximum pulling tension	450N
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
Reaction to fire according IEC 60332-1	Pass
Reaction to fire according EN50575	Dca-s2,d2,a1



Belden declares this product to be in compliance with the environmental regulations EU RoHS (Directive 2002/95/EC, 27 January 2003); this is valid for all material produced after the RoHS compliant date for this product.