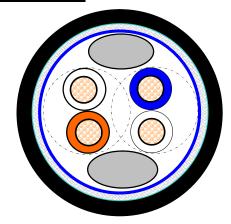


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# **STANDARDS**

- ISO/IEC 11801 and ISO/IEC 24702
- EN 50173 1
- TIA/EIA-568-B.2

# **CABLE CONSTRUCTION**



Conductor:

Material Stranded PACW

Construction 7X0.16 mm (26 AWG)

Insulation:

Material PP

Diameter 0.98 mm +/- 0.05

Pair

Pair 2 twisted insulated conductors

Number of pairs 2 all twisted together Left hand lay.

Colour code pair 1 White / Blue & Blue

Colour code pair 2 White / Orange & Orange

Filler PP

Tape (optional)

Material Polyester tape

Foil-Screen

Material Al/Polyester (Al side outside)

Braided Screen:

Material tinned copper

Coverage >80%

Sheath:

Material FRNC oil resistant & UV stabilised

Diameter 6.0 +/- 0.3 mm

Wallthickness 0.8 mm

Colour Black



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## **ELECTRICAL CHARACTERISTICS**

Low frequency and D.C.

D.C. resistance conductor  $$<140 \ \Omega/km$$  Resistance unbalance  $$<2 \ \%$ 

D.C. insulation resistance  $> 5000 \ M\Omega.km$  Dielectric strength cond. - cond. (2 sec.) 2.5 kV D.C. Mutual capacitance  $< 56 \ nF/km$  Capacitance unbalance  $< 1600 \ pF/km$ 

High frequency

Velocity of propagation @ 4 − 100 MHz ≥ 0.6 c

Skew @ 1 − 100 MHz ≤ 40 ns/100m

Propagation delay @ 1 − 100 MHz ≤ 534 + 36/Vf ns/100m

Mean characteristic impedance (Zcm) @ 100 MHz  $100 \pm 5~\Omega$  Input impedance 1-100 MHz  $100 \pm 15~\Omega$ 

Fraguency	Insertion loss dB/100m (max)	NEXT (dB)	ELFEXT (dB)	Return Loss (dB)
Frequency	(IIIax)	` ,	(ub)	, ,
0.772	-	67		19.4
1	3.2	65.3	63.8	20
4	6.0	56.3	51.8	23
10	9.5	50.3	43.8	25
16	12.1	47.2	39.7	25
20	13.6	45.8	37.8	25
25	15.3	44.3	35.8	24.3
31.25	17.1	42.9	33.9	23.6
62.5	24.8	38.3	27.9	21.5
100	32	35.3	23.8	20.1

### **MECHANICAL CHARACTERISTICS**

Elongation at break conductor ≥ 10 % Elongation at break insulation ≥ 100 % Elongation at break sheath ≥ 100 % Tensile strength sheath ≥ 9 Mpa

### **ENVIRONMENTAL AND OVERALL CHARACTERISTICS**

Maximum operating voltage 450 V D.C. and 300 V A.C.

Maximum continuous current per conductor (@25°C)

1.1 A rms

Halogenfree acc to

IEC 60754-2

Oil resistant acc

IEC 60811-2-1

Maximum pulling tension 40 N

Minimum setting/bending radius 30 / 60 mm



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Temperature range during installation  $$-5 \, / +50 \, ^{\circ}\text{C}$$  Temperature range during operation  $$-40 \, / +80 \, ^{\circ}\text{C}$$  Flame propagation IEC 60332-1



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.