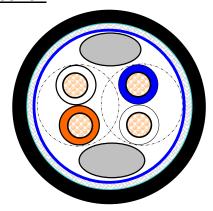


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STANDARDS

- ISO/IEC 11801 2nd Edition (September 2002) and ISO/IEC 24702
 EN 50173 1 (November 2002)
- TIA/EIA-568-B.2 (May 2001)

CABLE CONSTRUCTION



Conductor:

Material Stranded PACW

Construction 7X0.16 mm (26 AWG)

Insulation:

PP Material

0.98 mm +/- 0.05 Diameter

Pair

Pair 2 twisted insulated conductors 2 all twisted together, left hand lay Number of pairs

Colour code pair 1 White / Blue & Blue

Colour code pair 2 White / Orange & Orange

PP Filler

Tape (optional)

Material Polyester tape

Foil-Screen

Material Al/Polyester (Al side outside)

Braided Screen:

Material Tinned copper

Coverage >80%



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Sheath:

Material FRNC oil resistant & UV stabilised

Diameter 6.0 + -0.3 mm

Wall thickness 0.8 mm
Colour Black

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 $\leq 40 \text{ ns}/100 \text{m}$

Propagation delay @ 1 - 100 MHz $\leq 534 + 36/\text{Vf ns}/100\text{m}$

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

Frequency	Insertion loss dB/100m (max)	NEXT (dB)	ELFEXT (dB)	Return Loss (dB)
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



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MECHANICAL CHARACTERISTICS

Elongation at break conductor $\geq 10 \%$ Elongation at break insulation $\geq 100 \%$ Elongation at break sheath $\geq 100 \%$ Tensile strength sheath $\geq 9 \text{ Mpa}$

ENVIRONMENTAL AND OVERALL CHARACTERISTICS

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

Maximum continuous current per conductor (@25 $^{\circ}$ C) 1.1 A rms
Halogen free acc to IEC 60754-2
Oil resistant acc IEC 60811-2-1

Maximum pulling tension 40 N

Minimum setting/bending radius 30 / 60 mm Temperature range during installation 0 / +50 $^{\circ}$ C Temperature range during operation -20 / +80 $^{\circ}$ C Flame propagation IEC 60332-1



Belden CDT believes 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.