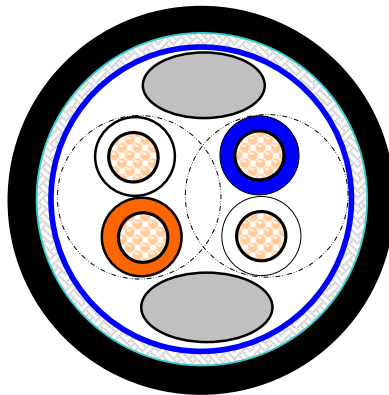


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STANDARDS

- 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:

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
Overlap	>=20%

Foil-Screen

Material	Al/Polyester 40/12 um (Al side outside)
Overlap	>=20%

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Braided Screen:

Material	tinned copper
Coverage	>80%

Sheath:

Material	PUR Flame-retardant and Halogen-free
Diameter	6.0 +/- 0.2 mm
Minimum wall thickness	0.8 mm
Colour	Black

ELECTRICAL CHARACTERISTICS

Low frequency and D.C.

D.C. resistance conductor	< 140 Ω /km
Resistance unbalance	< 2 %
D.C. insulation resistance	> 5000 M Ω .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	$\geq 0.6 c$
Skew @ 1 – 100 MHz	≤ 40 ns/100m
Propagation delay @ 1 – 100 MHz	$\leq 534 + 36/V_f$ ns/100m
Mean characteristic impedance (Zcm) @ 100 MHz	$100 \pm 5 \Omega$

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	≥ 10 %
Elongation at break insulation	≥ 100 %
Elongation at break sheath	≥ 100 %
Tensile strength sheath	≥15 Mpa

ENVIRONMENTAL AND OVERALL CHARACTERISTICS

Maximum operating voltage	450 V D.C. and 300 V A.C.
Maximum continuous current per conductor (@25 °C)	1.4 A rms
Halogen free acc to IEC 60754-2	
Oil resistant acc IEC 60811-2-1	
Maximum pulling tension	40 N
Minimum bending radius	25 mm
Temperature range during installation	0 / +50 °C
Temperature range during operation	-20 / +80 °C
Flame propagation	FT-2
UL	AWM 20549