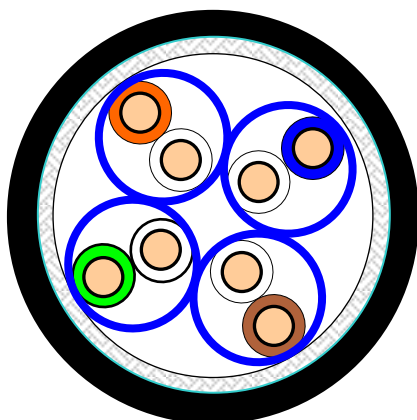


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STANDARDS

- ISO/IEC 11801 Cat 7,
- EN 50173 – 1
- TIA/EIA-568-B.2 (May 2001).
- UL AWM 21292

CABLE CONSTRUCTION



Conductor:

Material	stranded PACW
Construction	7x0.16 mm (26 AWG)
Nom. Diameter	0.48 mm

Insulation:

Material	Foam-skin PE
Diameter	1.05 mm +/- 0.05 mm
Nom wall thickness	0.30 mm

Screened Pair

Pair	2 twisted insulated conductors
Number of pairs	4, all twisted together Left hand lay.
Colour code pair 1	White & Blue
Colour code pair 2	White & Orange
Colour code pair 3	White & Green
Colour code pair 4	White & Brown
Foil-Screen each pair	Aluminium-polyester, Alu-side out

Braided Screen:

Material	tinned copper wires
Coverage	>65%

Sheath:

Material	PUR Flame-retardant and Halogen-free
Diameter	6.8 +/- 0.2 mm
Wall-thickness	0.7 mm
Colour	Black , Waterblue or Gray (like RAL7032)



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ELECTRICAL CHARACTERISTICS

Low frequency and D.C.

D.C. resistance conductor	< 145 Ω/km
Resistance unbalance	< 2 %
D.C. insulation resistance	> 5000 MΩ.km
Dielectric strength cond. – cond. (2 sec.)	2.5 kV D.C.
Mutual capacitance	< 56 nF/km
Capacitance unbalance	< 1600 pF/km

High frequency

High frequency		
Velocity of propagation	≥ 0.7*c	
Skew @100MHz	≤ 40	ns/100m
Propagation delay	≤ 534 + 36/Vf	ns/100m
Mean characteristic impedance (Zcm)		
@ 100 MHz	100 ± 5	Ω
Input impedance 1-600 MHz	100 ± 15	ohm
Transfer Impedance (Z _T)		
@ 10 MHz	< 5	mΩ/m

Frequency	Insertion loss dB/100m (max)	NEXT (dB)	PSNEXT (dB)	ELFEXT (dB)	PS ELFEXT (dB)	Return Loss (dB)
1	2.7	80	77			
4	5.5	80	77	58	55	23
10	8.5	80	77	50	47	25
16	10.8	80	77	46	43	25
20	12.1	80	77	44	41	25
31.25	15.2	80	77	40	37	23.6
62.5	27.8	75.1	72.1	34	31	21.5
100	27.8	72.4	69.4	30	27	20.1
200	40.1	67.9	64.9	24	21	18
300	50	65.3	62.3	20	17	17.3
600	73.3	60.8	57.8	14	11	17.3

MECHANICAL CHARACTERISTICS

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

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ENVIRONMENTAL AND OVERALL CHARACTERISTICS

Maximum operating voltage	450 V D.C. and 300 V A.C.
Maximum operating voltage UL AWM	30 V A.C.
Maximum continuous current per conductor (@25°C)	1.0 A rms
Halogenfree acc to	IEC 60754-2
Oil resistant acc	IEC 60811-2-1
Maximum pulling tension	80 N
Minimum bending / setting radius	65 / 30 mm
Temperature range during installation	-15 / +60 °C
Temperature range during operation	-40 / +80 °C
Temperature range storage	-40 / +80 °C
Flame resistance UL AWM	Horizontal flametest
UL AWM Style	21292



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.