

25007WB Cat. 6 F/UTP

Duct Grade with Waterblocking Tape

Application

Cat.6 F/UTP cable suitable for outdoor applications installed in ductwork, pipes, open tray or direct in the ground where mechanical stress is at a minimum.

The cable benefits from UV & water resistance. The inner cable holds CPR class B2ca-s1a,d1,a1 meaning once the outer jacket is removed the cable can be run inside the building and still meet CPR regulations.



Construction

Conductor	Solid bare copper wire, \varnothing 0.55 mm (AWG23/1)
Insulation	HDPE, \varnothing 1.10 \pm 0,05 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs cabled with central FRPE X-Filler
Shield	Aluminium/polyester tape + Drain Wire
Inner Jacket	FR-LSZH. 0,65 \pm 0,2mm thickness
Inner Jacket Diameter	\varnothing 7,8 mm
Tape	Water Blocking Swellable tape
Outer Jacket	LDPE. 0,60 \pm 0,10 mm thickness
Overall Diameter	\varnothing 9,0 \pm 0,8 mm
Pair Identification	1 - White- Blue /Blue, 2 - White-Orange /Orange 3 - White-Green /Green, 4 - White- Brown /Brown
Jacket Colours	Inner Jacket - Ivory Outer Jacket - Black

Standards

- ISO/IEC 11801
- TIA-568-C.2



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Electrical Characteristics (20°C)

Characteristic Impedance 1-250 MHz	100 ± 15 Ohm
Delay Skew 1-250 MHz	≤ 45 ns/100m
Unbalanced-to-ground capacitance max.	330 pF/100m
DC Resistance max.	9,38 Ohm/100m
DC Conductor Resistance Unbalance max.	5 %

Technical Performance 90m

Frequency	RL	ATT	NEXT	DELAY	PSNEXT	ELFEXT	PSELFEXT
MHz	≥ dB	≤ dB	≥ dB	≤ ns	≥ dB	≥ dB	≥ dB
1	19	2,1	65	580	62	63,3	60,3
4	19	4,0	63	562	60,5	51,2	48,2
8	19	5,7	58,2	557	55,6	45,2	42,2
10	19	6,3	56,6	555	54	43,3	40,3
16	18	8,0	53,2	553	50,6	39,2	36,2
20	17,5	9,0	51,6	552	49	37,2	34,2
25	17	10,1	50	551	47,3	35,3	32,3
31,25	16,5	11,4	48,4	550	45,7	33,4	30,4
62,5	14	16,5	43,4	549	40,6	27,3	24,3
100	12	21,3	39,9	548	37,1	23,3	20,3
200	9	31,5	34,8	547	31,9	17,2	14,2
250	8	35,9	33,1	546	30,2	15,3	12,3

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