RJCAB-C SPECIFICATION DATA SHEET

CABLE TYPE FTP STRANDED PUR (26AWG), CATEGORY 5 ENHANCED (CAT 5E)

GENERAL DESCRIPTION Local Area Network, high speed data communication cable for structured wiring systems

RELEVANT STANDARDS Complies with standards ISO/IEC 11801, IEC1156

CONSTRUCTION

COMPONENT	MATERIAL BREAKDOWN	DIAMETER
Insulated core		
Conductor	26AWG stranded plain annealed copper wire	0.48 ± 0.02mm
Insulation	High density polyethylene Nominal wall RT = 0.21mm	0.90 ± 0.05mm
Cable twins		
Twins	2 Cores twisted together with staggered lays to the colour code as shown below	1.80 ± 0.10mm
Colour code	Pair 1) blue - white/blue Pair 2) brown - white/brown Pair 3) green - white/green Pair 4) orange - white/orange	
Final construction		
Lay up	4 pairs items 1 to 4 cabled together to form a 4 pair cable unit, polyester binder longitudinally applied over pairs	3.90 ± 0.20mm
Screen	Longitudinally apply an alum/poly laminate Incorporate a 26AWG tinned drain wire	4.00 ± 0.20mm
Sheathing	Polyurethane Nominal wall RT = 0.70mm	5.40 ± 0.20mm

Minimum Bend Radius - 12 x Cable Diametre = 65mm

Weight 33 kg/km (nominal)

WEB503 FTP PATCH PUR electrical characteristics @ 20oC

Characteristic	Units	MHz	Value
Attenuation	dB/100m Max.	1 4 10 16 20 31.25 62.5 100.0	3.1 5.7 8.6 10.8 12.5 15.5 22.0 27.5
NEXT (PSNEXT)	dB Min.	1 4 10 16 20 31.25 62.5 100.0	65.3 (62.3) 56.3 (53.3) 50.3 (47.3) 47.3 (44.3) 45.8 (42.8) 42.9 (39.9) 38.4 (35.4) 35.3 (32.3)
Impedance	Ω	0.064 1 to 100	125 ± 25 100 ± 15
Resistance unbalance	% Max.		3
Conductor loop resistance	Ω/100m Max.		30
Vp	Nom.		0.66c
Capacitance	pF/m Nom.	0.001	52
d.c. Insulation resistance	MΩ km Min.		150
Dielectric strength for 1 minute	V a.c.		700

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