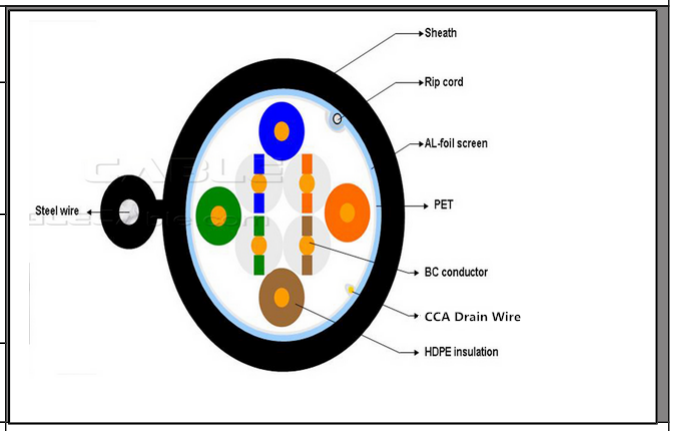
TECHNICAL DATA SHEET

RoHS COMPLIANT

REF : F/UTP 4 pairs cable - category 5e - Solid - 24AWG - 100MHz – PVC Sheath

Sheath Printing	Q5+ F/UTP MESS. 4P 24AWG TIA/EIA 568B2 ROHS CE 001m-500m		
Category	F/UTP/CAT5e-4P-PVC UV Protected		
Test Standard	ISO/IEC11801、TIA/EIA 568B YD/T1019-2001		
Cable	IEC 61156 EN 50288-3-2		
System	EIA/TIA 568-B.2-CAT5e ISO 1181 Edition 2-CLASS D EN 50173 Edition 2-CLASS D		
1. Conductor	Material	SOLID-Bare Copper	
	Nom. O.D. (mm)	0.50 Up +0.005 Down -0.005	
2. Insulation	Material	HDPE	
	Diameter	（ 0.98 ±0.05mm）	
Color	A.Blue, White-Blue	B.Orange,White-Orange	
	C.Green,White-Green	D.Brown, White-Brown	
3. Rip-cord	Yes	Drain wire	0.5mm cca
4. Shielded	Yes	PET	Yes
5.Messenger	1.16mm steel ±0.04mm	Mess Jacket	Black PVC（1.0
5. Sheath	Thickness	PVC （ 0.55 ±0.05 mm）	
	External O.D.	6.0mm （±0.2 mm)/（3.2mm±0.2mm）	
	Surface	Clean,Frap,Satiation	
	Material	PVC (complies RoHS)	
	Color	Black	
Surface Printing	Letter height	3.0±0.3mm	
	Color	White	
	Print error & Space	≤±0.5%，1m	
Packing	Wooden spool/Brown Carton		
Packing dimension	WoodenSpool - (450*450*240mm) Carton-(460*460*260mm)		
Packing length	500±1.5m		
Sheath Physical Properties	Before Aging Tensile Strength (Mpa) ≥13.5 Elongation (%)≥150		
	Aging Period (℃×hrs) 100℃×24h×10d		
	After Aging Tensile Strength (Mpa) ≥12.5 Elongation (%) ≥125		
	Cold bend (-20±2℃×4h) No visible cracks		
Electrical Characteristics (20℃)	1.0-100.0MHz, Characteristic impedance (Ω) 100±15		
	1.0-100.0MHz, Delay Skew 20℃(ns/100m) ≤45		
	DC Resistance 20℃(Ω/100m) max9.0		
	DC Conductor Resistance Unbalance (%)max 2.5		



Technical Performance (100m):

(MHz)	RL ≥dB	ATT ≤dB	NEXT ≥dB
1	20.0	2.0	68.3
4.0	23.0	4.1	59.3
8.0	24.5	5.8	54.8
10.0	25.0	6.5	53.3
16.0	25.0	8.2	50.2
20.0	25.0	9.3	48.8
25.0	24.3	10.4	47.3
31.25	23.6	11.7	45.9
62.5	21.5	17.0	41.4
100	20.1	22.0	38.3

(MHz)	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1	62.3	64.0	61.0
4	53.3	52.0	49.0
8	48.8	45.9	42.9
10	47.3	44.0	41.0
16	44.4	39.9	36.9
20	42.8	38.0	35.0
25	41.3	35.8	33.0
31.25	39.9	34.1	31.1
62.5	35.4	28.1	25.1
100	32.3	24.0	21.0

Technical Characteristics	Mutual Capacity(nom.):5.6Nf/100m
	Nominal Velocity propagation:69%
	Operating temperature:-20℃/+75℃