

EU-RoHS (2002/95/EC) Compliant

Cross Section



Cable Description

1) Conductor:	
Number of Pairs	4
Total Number of Conductors	8
Material	BC - Bare Copper
Stranding	Solid
Wire Gage	23AWG
Diameter	Φ 0.550±0.01mm
2) Insulation:	
Material	HDPE - Polyolefin
Diameter	Φ 1.00±0.05 mm
Pair Color Code(Stripe)	Pair 1:White/Blue & Blue Pair 2:White/Orange & Orange Pair 3:White/Green & Green Pair 4:White/Brown & Brown
3) Paired:	
Direction	Right Hand Lay
Length of Lay	< 38 mm
Twisted Pair Diameter	2.00 mm
4) Cabling:	
Order of the Pair	See the Cross Section
Direction	Right Hand Lay
Cross Filler	PE
PET Tape	0.02×20mm
5) Inner Sheath:	
Material	PVC - Polyvinyl Chloride
Colors	Black
Thickness	0.50±0.05 mm
Diameter	Φ 6.20±0.30 mm
6) Outer Sheath:	
Material	LDPE - Polyethylene
Colors	Black
Rip Cord	200D×3
Stranded Steel Wire messenger	Φ1.30mm
Thickness	0.75±0.05 mm
Diameter	Φ 7.80-Φ 2.80±0.30mm
Marking	Per Customer Request

Electrical Characteristics(20°C)

Reference Standard: TIA/EIA-568-B.2 & ISO/IEC 11801
 Product Standard Certification: UL File E227171

Test Item	Units	Spec
1.Max.Conductor DC Resistance	Ω/100m	≦8.20
2.Unbalance of Pair DC Resistance	%	≦2.5
3.Dielectric Strength between Pairs	kV/min	≦1.0
4.Min.Insulation Resistance	MΩ·km	≧5000
5.Max.Pair Mutual Capacitance	nF/100m	—
6.Max.Pair Capacitance Unbalance	pF/100m	≦330
7.Characteristic impedance(1 to 250MHz)	Ω	100±15
8.Delay Skew (1 to 250MHz)	ns/100m	≦45
9.Short or Open of the loop		None

Frequency (MHz)	Min.RL (dB)	Min.SRL (dB)	Max.IL (dB/100m)	Min.NEXT (dB)
1	20.0	30.0	2.0	74.3
4	23.0	30.0	3.7	65.3
8	24.5	30.0	5.3	60.8
10	25.0	30.0	5.9	59.3
16	25.0	30.0	7.5	56.2
20	25.0	30.0	8.4	54.8
25	24.3	29.0	9.5	53.3
31.25	23.6	28.1	10.6	51.9
62.5	21.5	25.1	15.4	47.4
100	20.1	23.0	19.8	44.3
155	18.8	21.1	25.1	41.4
200	18.0	20.0	29.0	39.8
250	17.3	19.0	32.8	38.3

Frequency (MHz)	Min.PS NEX T(dB)	Min.ELFEXT (dB)	Min.PSELF EXT(dB)	Max.Delay (ns/100m)
1	72.3	68.0	65.0	570
4	63.3	56.0	53.0	552
10	57.3	48.0	45.0	545
16	54.2	43.9	40.9	543
20	52.8	42.0	39.0	542
25	51.3	40.0	37.0	541
31.25	49.9	38.1	35.1	540
62.5	45.4	32.1	29.1	539
100	42.3	28.0	25.0	538
155	39.4	24.2	21.2	537
200	37.8	22.0	19.0	537
250	36.3	20.0	17.0	536

Mechanical Characteristics

Test Object	Sheath
Test Material	LDPE
Operating Temperature Range	-40°C to +60°C

Other Characteristics

Net Weight	71	kg/km
Length	305m	Plywood Drum
	500m	Plywood Drum
	1000m	Plywood Drum

Revision History

Rev	Description	Date	Init

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PAN-ASIA CABLE LIMITED