

Electro Cables Information



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Cable Description

1) Conductors x 2 CAT 6:

Pairs 4
Total Conductors 8
Material Solid Bare Copper
AWG 23

2) Insulate 2 x CAT 6:

Material HDPE
Nom. Thickness 0.029mm
Diameter 1.050 ± 0.02mm
Colour of Cord
Pair 1: Blue & White/Blue Stripe
Pair 2: Orange & White/Orange Stripe
Pair 3: Green & White/Green Stripe
Pair 4: Brown & White/Brown Stripe

3) Paired 2 x CAT 6:

Length of Lay each 30mm
Twisted Pair 2.00mm

4) Cabling 2 x CAT 6:

Order of the Pairs See the Cross Section Above
Cross Filler PE
Shielded Mylar Tape
Drain Tinned Copper
Shield AL-Mylar Tape

5) Inner Jacket 2 x CAT 6:

Material PVC
0.45 ± 0.02mm
0.040mm
7.20 ± 0.03mm

6) Armour:

Metal Aluminum
Diameter 18.4mm

7) Outer Jacket:

Material PVC
Nom. Thickness 0.40 ± 0.02mm
Min. Thickness 0.38mm
O.D. 19.18mm
Colour Per Customer Request

Revision History

Date: Jan 01, 2013 Rev.1: dp

Electrical Characteristics

Standard TIA/EIA-568-C.2 & IEC/ISO 11801
Product Standard Certification UL Approved

Test Item	Units	Spec
1. Conductor D.C. Resistance	Ω/100m	≤9.38
2. Dielectric Strength between Pairs	kv/min	≤1.5
3. Insulation Resistance	MΩ·km	≥5000
4. Capacitance	nF/100m	330
5. Unbalance of Capacitance	pF/100m	—
6. Characteristic impedance	Ω	100±15
7. Shield	pF/100m	—

Frequency (MHz)	RL (dB)	SRL (dB)	ATTEN (dB/100m)	NEXT (dB/100m)
1	20.0	30.0	2.0	76.3
4	23.0	30.0	3.8	67.3
8	24.5	30.0	5.3	62.8
10	25.0	30.0	6.0	61.3
16	25.0	30.0	7.6	58.3
20	25.0	30.0	8.5	56.8
25	24.3	29.0	9.5	55.3
31.25	23.6	28.1	10.7	53.9
62.5	21.5	25.1	15.4	49.4
100	20.1	23.0	19.8	46.3
155	18.8	21.1	25.2	43.5
200	18.0	20.0	29.0	41.8
250	17.3	19.0	32.8	40.3

Frequency (MHz)	PSNEXT (dB/100m)	ELFEXT (dB/100m)	PSELFEXT (dB/100m)	Delay (ns/100m)
1	72.3	67.8	64.8	45.0
4	63.3	55.8	52.8	45.0
8	58.8	49.7	46.7	45.0
10	57.3	47.8	44.8	45.0
16	54.2	43.7	40.7	45.0
20	52.8	41.8	38.8	45.0
25	51.3	39.8	36.8	45.0
31.25	49.9	37.9	34.9	45.0
62.5	45.4	31.9	28.9	45.0
100	42.3	27.8	24.8	45.0
155	39.5	24.2	21.2	45.0
200	37.8	21.8	18.8	45.0
250	36.3	19.8	16.8	45.0

Weight 195.9 kg/305m
Length Per Customer Request