



Cat 6 FTP PVC Cable

Applications: Support full and half duplex operation, digital/analogic video, 16Mbps Token Ring, 100Mbps TP-PMOD, 100 BASE-T (IEE802.3), 1000 BASE-YT (Gigabyte Ethernet), 155/622 Mbps ATM and 1.2 Gbbs ATM

Construction

Conductor	23 awg solid bare copper (0.57mm)
Insulation	Polyolefine
Pair	4 twisted pairs: white / blue, white / orange, white / green and white / brown. Conductor identification according to IEC 60304
Screen	Overall Aluminium/polyester laminated tape plus tinned copper drain wire
Sheath	Grey PVC (IEC 60332-1)
BATT Part Number	77090

Standards

IEC 60332-1, UNE-EN 50265-2-, EC Verified (DELTA), Cable Certificado a 500MHz, ANSI/TIA/EIA 568-B.2-1 (Cat 6), ISO/IEC 11801:2002, EN 50173:2002

General Characteristics

DC resistance (max) 0hm/100m (328ft) at 20°C	8.90
Resistance unbalance (max) Individual pair %	2.0
Mutual capacitance (nominal) nF/100m (328ft) at 1kHz	5.20
Nominal velocity of propagation NVP (% speed of light)	68
Characteristic impedance (0hm) Value at	1,0 – 100 MHz 85-115 100 – 350 MHz 78-122
Propagation Delay (man) (ns at 10MHz)	518
Delay skew (max) (ns/100m)	45
External diameter (mm)	6.2
Weight (kg/km)	42
Minimum bending radius (mm)	4 x outer diameter = 25





Electrical Characteristics

Attenuation

Freq. MHz	0.772	1	4	8	10	16	25	31,25	62,5	100	155	200	250			
dB/100m max	1.6	1.8	3.5	5	6.5	8.2	8.8	9.9	14.1	18	22.7	26	29.2			

NEXT

Freq. MHz	0.772	1	4	8	10	16	25	31,25	62,5	100	155	200	250			
dB min	77.5	76.7	72.1	69.9	69.2	67.6	66.2	65.4	61.9	58.9	56.0	54.3	52.9			

Power Sum - NEXT

Freq. MHz	0.772	1	4	8	10	16	25	31,25	62,5	100	155	200	250			
dB min	74.5	73.7	69.1	66.9	66.2	64.6	63.2	62.4	58.9	55.9	53.0	51.3	49.9			

Power Sum -ELFEXT

Freq. MHz	0.772	1	4	8	10	16	25	31,25	62,5	100	155	200	250			
dB min	71.1	70.0	64.0	59.9	58.0	53.9	50.0	48.1	42.1	38.0	34.2	32.0	30.0			

ACR

Freq. MHz	0.772	1	4	8	10	16	25	31,25	62,5	100	155	200	250			
db/100m min	94.8	92.9	82	75.9	73.9	69.3	64.5	61.9	53.1	46.1	38.5	33.5	28.8			

Power Sum - ACR

Freq. MHz	0.772	1	4	8	10	16	25	31,25	62,5	100	155	200	250			
db/100m min	92	90.1	79	72.8	70.8	66.2	61.3	58.7	49.9	42.8	35.1	30.1	25.4			

Return Loss

Freq. MHz	0.772	1	4	8	10	16	25	31,25	62,5	100	155	200	250			
dB min	-	37.4	35.6	34.7	34.4	33.8	33.6	33.3	33	32.1	31.5	30.6	30.4			