

LAN Cable

pro series

Part No: FTPL6AJF

Description

Solid PACW, foam PE insulation, twinned, 4 pair, jelly filled, cross-web separator, overall aluminium laminate screen with a tinned annealed drain wire, rip cord, PE overall sheath, Cat6A F/UTP underground cable.¹

Applicable Standards

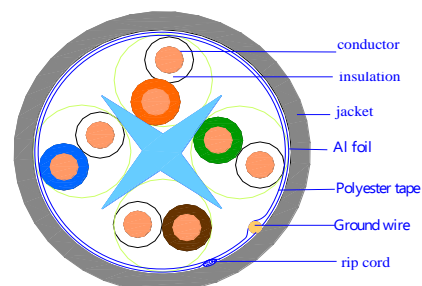
ANSI/TIA 568-C.2, ISO/IEC 11801, AS/NZS 11801, AS/CA S-008, AS 1049

Suitable Applications

Used for horizontal and fixed wiring in Structured cabling and computer networks operating up to 10 Gbit on Class EA links. Suitable for 10BaseT, 100BaseT, 1000BaseT and 10GBaseT.

Not suitable for mains connection.

Images



See packing table for full details of jacket colour options.
Image for illustration purposes only.



Construction

Conductor	Material	Plain Annealed Copper Wire
	Standing	Solid
	Diameter	0.56mm Nominal
Insulation	Material	Foam PE
	Nominal Thickness (mm)	0.3 mm
	Nominal OD (mm)	1.2 mm
Twins	Number	4
	Colour	Blue + White/Blue Stripe Orange + White/Orange Stripe Green + White/Green Stripe Brown + White/Brown Stripe

¹ Not intended for direct burial .

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	Water Blocking	Material	Jelly Filled
	Screen	Material	Aluminium/PET laminate
		Application	Longitudinal and in contact with the drain wire
		Drain Wire	26AWG solid tinned annealed copper
	Sheath	Material	UV Stabilized LLDPE
Colour		Black	
Nominal Thickness (mm)		0.6	
Nominal OD (mm)		8 mm	

Electrical Properties	Voltage Rating	ELV
	Max. Conductor DC Resistance @ 20°C	≤ 7.65 Ohm/100m
	Characteristic Impedance	100Ω Nominal ²
	Nom. Capacitance Cond. to Cond.	< 5.6 nF/100m @ 20°C
	Capacitance Unbalance	< 300 pF/100m @ 20°C

Transmission Properties	Frequency	RL	IL	NEXT	PSNEXT	ACRF	PSACRF
	MHz	dB	dB/100m	dB	dB	dB	dB
	1	20.0	2.0	74.3	72.3	67.8	64.8
	4	23.0	3.8	65.3	63.3	55.8	52.8
	8	24.5	5.3	60.8	58.8	49.7	46.7
	10	25.0	5.9	59.3	57.3	47.8	44.8
	16	25.0	7.5	56.2	54.2	43.7	40.7
	20	25.0	8.4	54.8	52.8	41.8	38.8
	31.25	23.5	10.5	51.9	49.9	37.9	34.9
	62.5	21.5	15.0	47.4	45.5	31.9	28.9
	100	20.1	19.1	44.3	42.3	27.8	24.8
	200	18.0	27.6	39.8	37.8	21.8	18.8
	300	16.8	34.3	37.1	35.1	18.3	15.3
500	15.2	45.3	33.8	31.8	13.8	10.8	

² Variation in the characteristic impedance is governed by meeting the return loss requirements of this specification.



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Mechanical Properties	Operating Temperature Range	-15 to 75°C
	Max. Recommended Pulling Tension	100N
	Min. Bend Radius (install)	80 mm
	Approximate Mass	6.4kg/100m

Supply Details	Part Number	Pack Size	Jacket Colour	Reel Size	Reels per pallet
				Cm	
	FTPL6AJFBK305	305m	Black	F38 x W33.8	27 or 18

- Madison reserves the right to make changes to the products described in this specification without prior notice
- All values subject to factory tolerances