

Cat6a Solid Conductor F/UTP Gel-filled Cable

Y8487-305 Bulk Cable

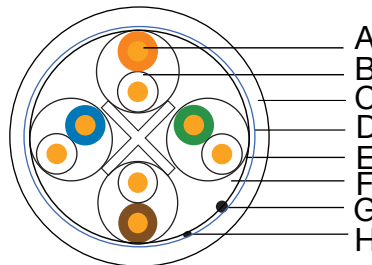


FEATURES

Cat6a cable for outdoor and underground burial. UV stabilised, gel-filled jacket to prevent water ingress. 4 twisted pairs with shielding, solid copper conductors suitable for IDC terminations. Supplied on 305 metre reels. Count-down metre-marking.

CAT#	COLOUR	LENGTH	PACKING
Y8487-305	Black	305 Metre	Reel

DESIGN & CONSTRUCTION



ITEM	DESCRIPTION	COLOUR	SPECIFICATION	MATERIALS
A	Conductor	Copper	AWG 23/ 0.56mm 4 Pairs	Bare Copper
B	Insulation	Colour coded HDPE	Average Thickness (0.3 mm) Diameter (± 0.013 mm) 1.08	PE
C	Outer Jacket	Black	Average Thickness (0.6 mm) Minimum Point Thickness (0.60 mm) Outer Diameter (± 0.30 mm) 8.0	PE UV
	Cross			Polyethylene
D	Shielding			Aluminium Foil (100% coverage)
E	Mylar			Mylar (100% coverage)
F	Water blocking			Gel
G	Drain wire		Thickness 1/0.40mm	Tinned Copper
H	Rip cord			Nylon

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FREQUENCY (MHZ)	ATTENUATION (Max dB/100m)	NEXT (dB/100m)	EL NEXT (dB/100m)	RL (dB)
1	2.1	74.3	67.8	20.0
4	3.8	65.3	55.8	23.0
10	5.9	59.3	47.8	25.0
16	7.5	56.2	43.7	25.0
25	9.4	53.3	39.8	24.3
31.25	10.5	51.9	37.9	23.6
62.50	15.0	47.4	31.9	21.5
100	19.1	44.3	27.8	20.1
200	27.6	39.8	21.8	18.0
250	31.1	38.3	19.8	17.3
500	45.3	33.8	13.8	15.2

MECHANICAL CHARACTERISTICS

Conductor breaking elongation rate	≥ 15%
Insulation tension strength	≥ 10MPa
Insulation breaking elongation	≥ 300%
Sheath tension before aging	≥ 13.5MPa
Sheath breaking elongation before aging	≥ 150%

ELECTRICAL CHARACTERISTICS

DC resistance	≤ 95 Ohm/km
DC Conductor resistance unbalance	≤ 5.0%
Dielectric intensity between conductors DC 1 Min	1000V/1min
Insulation resistance	≥ 5000MOhm km
Mutual capacitance	≤ 5.6 Nf/100m
Impedance (1.0-100.0MHz)	(100±15) Ohm
Delay shew	≤ 45ns/100m

REGULATORY COMPLIANCE



BEND RADIUS

The minimum bend radius is 57.4mm.