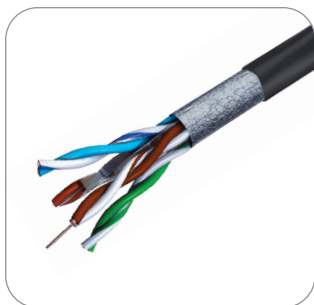


Category 6A Gel Filled Underground Cable



This F-UTP cable is designed to support Category 6A link and Channel performance, with internationally defined physical and electrical performance up to 500MHz. Gel filled for underground and outdoor use.

Features

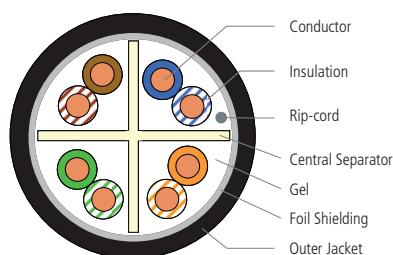
- UV Stabilised outer PE jacket
- Gel filled

Applications

Outdoor or underground in self-draining conduit, for use in the following networks:

- Generic cabling systems
- 10GBASE-T Ethernet
- 1000BASE-T Gigabit Ethernet
- 100BASE-TX Fast Ethernet
- 10BASE-T Ethernet
- 155/622 Mbps ATM
- Token Ring

Cross Sectional Drawing



Construction

Conductor	23AWG annealed bare copper
Insulation	Foamed PE
Colour Code	White-Blue / Blue, White-Orange / Orange, White-Green / Green, White-Brown / Brown
Overall Screen	Aluminium poly laminate, 0.4 mm TC Drain Wire
Outer Jacket	Black PE Nominal diameter 8.0 ± 0.5 mm
Additional Components	Central separator for improved performance Cable is supplied without ripcord unless specified
Printing	White print with legend

Mechanical Characteristics

Maximum Pulling Force	100 N
Minimum Bending Radius	80 mm
Nominal Weight	63 kg/km
Operating Temperature	-40°C ~ +70°C
Installation Temperature	0°C ~ +50°C
Fire Performance	None
Product Length	500 m

Category 6A Gel Filled Underground Cable

Electrical Performance

Transmission Frequency (MHz)	1	4	10	16	20	31.25	62.5	100	200	250	500
NEXT (dB)	74.3	65.3	59.3	56.2	54.8	51.9	47.4	44.3	39.8	38.3	33.8
Characteristic Impedance (ohm)	100 +/- 15								100 +/- 22		100 +/- 25
Attenuation (dB/100 m)	2.1	3.8	5.9	7.5	8.4	10.5	15.0	19.1	27.6	31.1	45.3
Return Loss (dB)	20	23	25	25	25	23.6	21.5	20.1	18	17.3	15.2
PSNEXT (dB)	72.3	63.3	57.3	54.2	52.8	49.9	45.4	42.3	37.8	36.3	31.8
ACRF (dB)	67.8	55.8	47.8	43.7	41.8	37.9	31.9	27.8	21.8	19.8	13.8
PS ACRF (dB)	64.8	52.8	44.8	40.7	38.8	34.9	28.9	24.8	18.8	16.8	10.8
PS ANEXT (dB)	67.0	67.0	67.0	67.0	67.0	67.0	65.6	62.5	58.0	56.5	52.0
PS AACRF (dB)	67.0	66.2	58.2	54.1	52.2	48.3	42.3	38.2	32.2	30.2	24.2
Delay (ns/100 m)	570	552	545	543	542	540	539	538	537	536	536
Skew (ns/100 m)	45										

Ordering Information

PART NUMBER	DESCRIPTION
AFLCABLE6AF-BK-GEL	Category 6A F-UTP Gel Filled Underground Cable, 500M

Standards

- ISO 11801
- TIA-568.2-D
- UL Subject 444