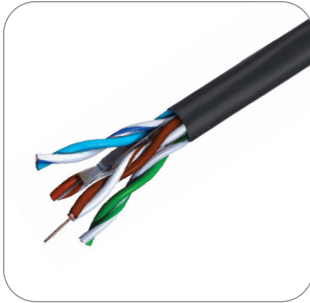


Category 6 Gel Filled Underground Cable



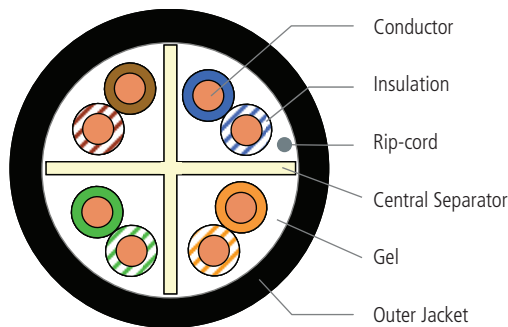
This U-UTP Cable is designed to support Category 6 Link and Channel performance, with internationally defined Physical and Electrical performance up to 250 MHz. Gel filled to comply with Australian standards for underground and outdoor use. Outer jacket contains UV stabiliser. To be used outdoors or underground in self-draining conduit.

Applications

Outdoor use in the following networks:

- 10GBASE-T Ethernet
- 100BASE-TX Fast Ethernet
- Broadband Video
- 100 Mbps TP-PMD
- Voice
- 1000BASE-T Gigabit Ethernet
- 10BASE-T Ethernet
- 155/622 Mbps ATM
- 4/16 Mbps Token Ring

Cross Sectional Drawing



Construction

Conductor	23AWG Soft Plain Copper
Insulation	Polyethylene with colour marking on white cores to ease identification
Colour Code	White-Blue/Blue, White-Orange/Orange, White-Green/Green, White-Brown/Brown
Filling	Cable is filled with a water blocking gel
Outer Jacket	LLDPE coloured Black Nominal Diameter 6.8 +/- 0.5 mm
Additional Components	Cable is supplied without ripcord unless specified by the customer Central separator for improved performance.
Printing	Sheath printed White with Legend

Mechanical Characteristics

Maximum Pulling Force	110 N
Minimum Bending Radius	70 mm
Nominal Weight	49 kg/km
Operating Temperature	-15°C ~ +70°C
Installation Temperature	+0°C ~ +50°C
Fire Performance	None
Product lengths	305 m standard, 500 m, 1000 m on request.

Category 6 Gel Filled Underground Cable

Electrical Performance

Insulation Resistance	≥5 GOhm.km									
Transmission Frequency (MHz)	1	4	10	16	20	31.25	62.5	100	200	250
NEXT (dB/100 m)	74.3	65.3	59.3	56.2	54.8	51.9	47.4	44.3	39.8	38.3
Characteristic Impedance	100+/-15					100+/-22				
Attenuation (dB/100 m)	2.1	3.8	5.9	7.5	8.4	10.5	15.0	19.1	27.6	31.1
Return Loss (dB/100 m)	20	23	25	25	25	23.6	21.5	20.1	18	17.3
PSNEXT (dB/100 m)	72.3	63.3	57.3	54.2	52.8	49.9	45.4	42.3	37.8	36.3
ELFEXT (dB/100 m)	67.8	55.8	47.8	43.7	41.8	37.9	31.9	27.8	21.8	19.8
PSELFEXT (dB/100 m)	64.8	52.8	44.8	40.7	38.8	34.9	28.9	24.8	18.8	16.8
Skew (ns/100 m)	45									
NVP	≥ 55%									

Ordering Information

PART NUMBER	DESCRIPTION
AFLCABLE6U-BK-GEL	Category 6 U-UTP Gel Filled Underground Cable

Standards

- AS/NZS 11801.1:2019
- ANSI/TIA 568.2-D
- UL Subject 444