

## Category 6<sub>A</sub> F-UTP Copper Cable

AFL's range of Category 6<sub>A</sub> cable has link and channel performance meeting internationally defined Physical and Electrical characteristics up to 500 MHz.

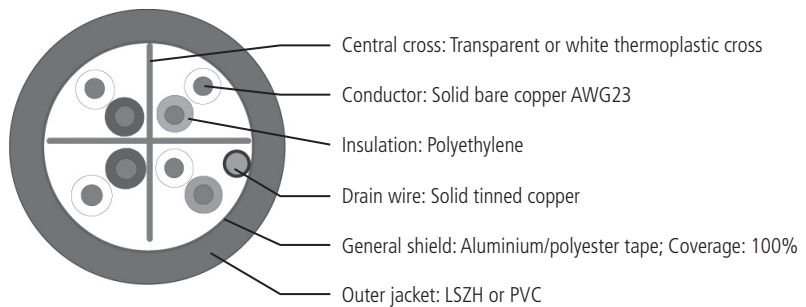
### Standards

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

### Applications

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

### Cable Components



### Construction

Conductor	23AWG Soft Plain Copper
Insulation	Foam and solid Polyethylene material, one pair made by foam material to improve the electrical performance
Colour Code	White /Blue, White /Orange, White /Green, White /Brown, no stripe and ring on the white foam core
Shield	Aluminium poly laminate
Outer Jacket	ROHS Compliant PVC, CMX, CM, CMR, Leaded and Lead-free as well as LSZH versions available Nominal Diameter 7.2 +/- 0.5 mm
Additional Components	Cable is supplied without ripcord unless specified by the customer Central separator for improved performance.
Printing	Sheath printed Black with Legend

### Mechanical Characteristics

Maximum Pulling Force	100 N
Minimum Bending Radius	once installed 4 x OD, during installation 8 x OD
Nominal Weight	55 kg/km
Operating Temperature	-15°C ~ +60°C
Installation Temperature	+0°C ~ +50°C
Fire Performance	PVC: VW1, CMX, CM, MP, CMG, MPG, CMR, MPR, IEC332.1 LSZH: IEC332.1, IEC332.3 or depending on Jacket Type
Product lengths	305 m standard, 500 m, 1000 m on request

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### Electrical Performance

Transmission Frequency (MHZ)	1	4	10	16	20	31.25	62.5	100	200	250	500
NEXTA dB/100 m	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) (For information)	100+/- 15								+/- 22		+/- 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/100 m	20	23	25	25	25	23.6	21.5	20.1	18	17.3	15.2
PSNEXTA dB/100 m	72.3	63.3	57.3	54.2	52.8	49.9	45.4	42.3	37.8	36.3	31.8
ELFEXT dB/100 m	67.8	55.8	47.8	43.7	41.8	37.9	31.9	27.8	21.8	19.8	13.8
PSELFEXT dB/100 m	64.8	52.8	44.8	40.7	38.8	34.9	28.9	24.8	18.8	16.8	10.8
Delay ns/100 m	570	552	545	543	542	540	539	538	537	536	536
Skew ns/100 m	45										
NVP	≥ 64%										

### Ordering Information

PART NUMBER	DESCRIPTION
AFLCABLE6AF-xx-L	C6A F-UTP CABLE [COLOUR] 305M REEL, LSZH

Note: xx = colour

Example: AFLCABLE6AF-BL-L - C6A F-UTP CABLE BLUE 305M REEL, LSZH

COLOUR OPTIONS*
BL - Blue
BK - Black
GN - Green
GY - Grey
OR - Orange
PK - Pink
PL - Purple
RD - Red
WH - White
YL - Yellow

\* Not all colour options stocked, Please contact AFL for availability.