

Product Specification Sheet

Cat 6A S/FTP LSZH Patch Leads

4Cabling's range of quality category 6A Ethernet Patch Leads are made from 100% Bare Copper. They are designed to be used in High data transmission and mission critical situations where data integrity and transfer speeds are of the utmost importance. 4Cabling offers this quality range patch cords in 6 colours and lengths varying from 0.25m up to 5m to satisfy all your patching requirements.

All Category 6A patch cords are wired to T568A (Australian Standard), supplied with A-Tick, ETL, 3P Verification & UL Verification to ANSI/TIA-568-C.2, ISO/IEC 11801 & EN50173 International Standards.

Cat 6A Cables are manufactured differently from Cat 6/Cat 5e In many ways. The nature of 10Gig networks is such that pairs of copper conductors in the same cable can create crosstalk amongst themselves, a scenario not normally seen, or considered in cat 6 and/or below rated patch leads. Pair Separation becomes a critical design trait. Only the best cables will will perform at the 500MHz required in High Performance Cat 6A installations. Demand the best and ask for 4Cabling Cat 6A by name to ensure your network performs the way it was designed.

Certifications and Compliance:

All Category 6A patch cords are wired to T568A (Australian Standard), supplied with A-Tick, ETL & UL Verification to ANSI/TIA-568-C.2, ISO/IEC 11801 & EN50173 International Standards.

Cable Description

1	Construction Material	26AWG x 4Pair, 100% Bare Copper
2	Insulation Material	PE
3	Insulation Dia. - Outer Dia.	1.0 mm ± 0.03mm
4	Twisted Pair	4 Pair with Aluminium polyester
5	Cable Dia. - Outer Dia.	6.2mm ± 0.2mm
6	Shield	Tinned copper braid lain in close contact with individual foil shields
	Jacket Material	LSZH
8	RJ45 Plug Specification	8P8C 50µ" U-Type 94V-2
8	Length (Includes RJ45 Plug)	Listed Length + 0-20mm



Intertek

AVAILABLE COLOURS



AVAILABLE SIZES

0.25m, 0.5m, 0.75m, 1m, 1.5m,
2m, 2.5m, 3m, 4m, 5m, 7m,
10m, 15m, 20m, 30m, 50m

PHONE

02 9565 4077
Monday - Friday
7:30 AM - 5:00 PM

FAX

02 9565 4088
Monday - Friday
8:00 AM - 5:00 PM

EMAIL

Send orders or
questions to:
sales@4cabling.com.au

RETAIL STORE:

31 Maddox Street
Alexandria, NSW, 2015
Open 5½ Days

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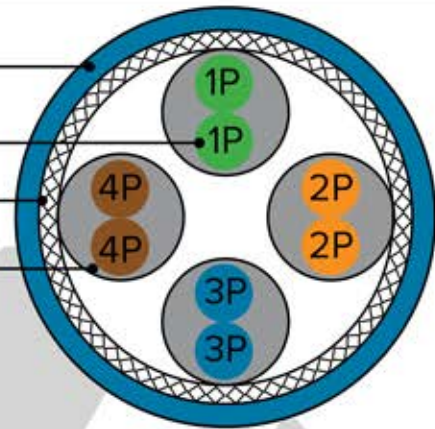
Wire Diagram (568A)	
1	White Green
2	Green
3	White Orange
4	Blue
5	White Blue
6	Orange
7	White Brown
8	Brown

Jacket

Twisted Pair

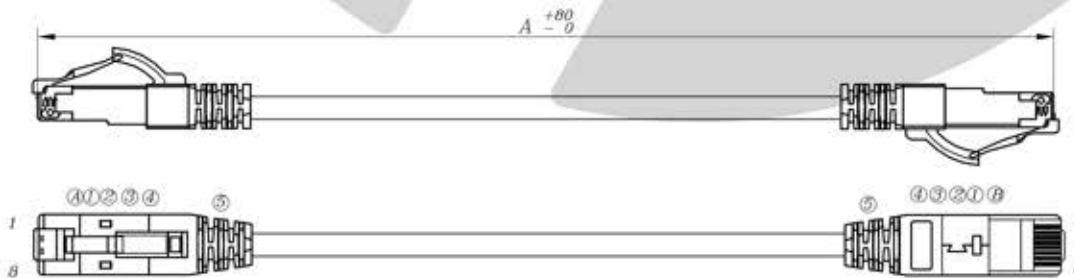
Braid Shield

Aluminium/
Polyester



Electrical and Mechanical Characteristics:

Conductor Resistance	$\leq 5\Omega$
Insulation Resistance	$\geq 10M\Omega$
Insulation resistance by mated connectors, measured between terminations	$> 500M\Omega$
Insulation resistance by mated connectors	$\geq AC1000V$
Characteristic Impedance	$100\pm 6\Omega @ 1-250MHz$
Contact Resistance	$20M\Omega$ max.
Resistance Unbalance	2% max.
Voltage Rating	75V AC max.
Dielectric Strength	1000V/Min. minimum RMS
Ampacity	1A max.
Coupling Attenuation	40dB min. @30-100 MHz $40-20\log(f/100)$ @100-250 MHz
Transfer Impedance	N/A
Durability	≥ 1200 matching cycles
Cable to Plug Tensile Strength	9 Kgf (90N) min
Pulling Force	1 Kgf (10N) max
Performance Test	Component Level Compliant



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Chemical characteristics:

No harmful substances, fully comply with EU Directive 2011/65/EU (RoHS-2)

Environmental Characteristics:

Transportation and storage [°C] : -25 °C to +70 °C
 Installation temperature [°C] : -10 °C to +50 °C
 Operating temperature [°C] : -25 °C to +60 °C

Fire Resistant:

Flame test: comply with IEC 60332-1-2

Industrial standard:

- ISO/IEC11801:2011(Ed. 2.2)
- ANSI/TIA/EIA-568-C.2
- EN 50173-1:2011
- EN 50173-2:2007 including amendment A1:2010
- IEC61935-2:2010(Ed.3.0)
(transmission requirements)

Freq MHz	Insertion Loss (Max. dB) Limit (dB)	NEXT (Min. dB) Limit (dB)	RL (Min. dB) Limit (dB)	PS NEXT (Min. dB) Limit (dB)	ACR-N (Min. dB) Limit (dB)	PS ACR-N (Min. dB) Limit (dB)	ACR-F (Min. dB) Limit (dB)	PS ACR-F (Min. dB) Limit (dB)
1	3	65	19	62	62	59	63.3	60.3
4	4.2	63	19	60.5	58.9	56.4	51.2	48.2
8	5.8	58.2	19	55.6	52.4	49.8	45.2	42.2
10	6.5	56.6	19	54	50.1	47.5	43.3	40.3
16	8.2	53.2	18	50.6	45	42.4	39.2	36.2
20	9.2	51.6	17.5	49	42.5	39.8	37.2	34.2
25	10.2	50	17	47.3	39.8	37.1	35.3	32.3
31.25	11.5	48.4	16.5	45.7	36.9	34.2	33.4	30.4
62.5	16.4	43.4	14	40.6	27	24.2	27.3	24.3
100	20.9	39.9	12	37.1	19	16.2	23.3	20.3
200	30.1	34.8	9	31.9	4.7	1.8	17.2	14.2
250	33.9	33.1	8	30.2	-0.8	-3.7	15.3	12.3
300	37.4	31.7	7.2	2.8	-5.6	-8.6	13.7	10.7
400	43.7	28.7	6	25.8	-14.9	-17.9	11.2	8.2
500	49.3	26.1	6	23.2	-23.2	-26.1	9.3	6.3

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