

RADUM PTY LTD

www.radum.com.au
1300 1 RADUM
1300 1 7 2 3 8 6

CATEGORY 6A LSOH SHIELDED/FTP 4 PAIR



Radum Category 6A S/FTP cables are designed to meet the most advanced S/FTP cable applications. Tested to 500MHz, the guaranteed performance of this cable meets the ISO/IEC 11801 and EN50288 requirements, making it ideal for high-end transmission links supporting today's networking protocols.

CONSTRUCTION

23 AWG bare copper wire insulated with polyethylene. Two insulated conductors twisted together to form a pair and four such pairs cabled to form the basic unit jacketed with LSOH.

STANDARDS

International
ISO/IEC 11801

European
EN50288

APPLICATIONS

Category 6A S/FTP cable is intended for high speed data applications including:

10BASE-T, 155 Mb/s ATM, 4/16 Mb/s Token Ring

FEATURES

- Specified and tested to 500 MHz
- Small, round design pairs

BENEFITS

- Reliably supports today's network protocols
- Reduced installation costs and maintenance
- Lower Bit Error Rates, increases network efficiency and uptime

Melbourne
Head Office
7 Elata Drive
Tullamarine VIC, 3043
Ph: (03) 9338 9009
Fax: (03) 9338 5996
Sales@radum.com.au

Sydney
23 Harley Cresnet
Condell Park, NSW, 2223
Ph: (02) 9790 5777
Fax: (02) 9790 5788
Syd@radum.com.au

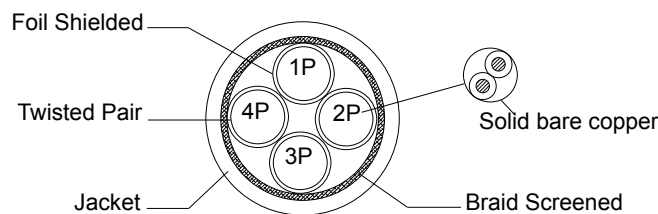
Queensland
30 Northlink Place
Virginia, QLD, 4014
P: +61 7 3256 7799
F: +61 7 3256 9899
E: qld@radum.com.au

Tasmania
39 Pitcairn Street,
Glenorchy, TAS, 7010
Ph: 1300 1 72386
Fax: (03) 6272 5755
Tas@radum.com.au

Western Australia
Unit 18, 9 Inspiration Dr
Wangara, WA, 6065
Ph: (08) 93039068
Fax: (08) 93039069
Wa@radum.com.au

New Zealand
17 Fairfax Avenue
Penrose, AUKLAND
P: 09 525 1269
F: 09 525 1262
E: nzl@radum.com.au

CATEGORY 6A LSOH S/FTP INSTALL CABLE 4 PAIR



Construction

Twisted Pairs Color Code:

1. PAIR 1: Blue, White
2. PAIR 2: Orange, White
3. PAIR 3: Green; White
4. PAIR 4: Brown; White

Component

1. Conductor: AWG 23
2. Insulators: Skin-Foam-Skin (Min. Thickness 0.153, Min. Avg. thickness 0.178)
3. Insulators Diameter: 1.335 ± 0.01 mm
4. Al-Mylar Tape: 65U*12.5 mm
5. Jacket: 75 PVC (Min. Thickness 0.58, Min. Avg. thickness 0.46)
6. Jacket Diameter: 7.2 ± 0.2 mm

Marking

www.radum.com.au Cat6A SSTP Solid Cable 23AWG 4Pr LSOH ANSI/TIA 568C.2

N11251 ROHS Compliant

Physical Characters

Un-aged:

1. Tensile strength: Polyolefin 2400PSI, Jacket (LSOH) 2000PSI

2. Elongation: Polyolefin 300% min. Jacket (LSOH) 100% min After Aging:

1. Tensile strength: Polyolefin 75%min. Jacket (LSOH) 85% min

2. Elongation: Polyolefin 75%min. Jacket (LSOH) 50% min

Electric Characters

1. Voltage rating: 300V

2. Temperature rating: 75

3. Dielectric strength: DC 2.5 KV / 2sec. or AC1.75 KV / 2sec.

4. Mutual Capacitance: 5.6 nF/100M nom.

5. Pair to ground : 330pF/100m max

6. Conductor DC resistance: 89 Ohms/km max. at 20 .

7. DC Resistance Unbalance: 5% max.

8. Characteristic Impedance: 100 ± 15 Ohms 1~500MHz

9. Propagation Delay skew: 45ns/100m max. 1~500MHz 10.

Velocity of Propagation: 70%

FREQ MHz	Insertion Loss (max. dB/100m)	NEXT (min. dB)	RL (min. dB at 20)	PSNEXT (min. dB)	ACRF (min. dB)	PSACRF (min. dB)	DELAY (max. ns at 20)
1	2.1	74.3	20.0	72.3	67.8	64.8	570
4	3.8	65.3	23.0	63.3	55.8	52.8	552
8	5.3	60.8	24.5	58.8	49.7	46.7	547
10	5.9	59.3	25.0	57.3	47.8	44.8	545
16	7.5	56.2	25.0	54.2	43.7	40.7	543
20	8.4	54.8	25.0	52.8	41.8	38.8	542
25	9.4	53.3	24.3	51.3	39.8	36.8	541
31.25	10.5	51.9	23.6	49.9	37.9	34.9	540
62.50	15.0	47.4	21.5	45.4	31.9	28.9	539
100	19.1	44.3	20.1	42.3	27.8	24.8	538
200	27.6	39.8	18.0	37.8	21.8	18.8	537
250	31.1	38.3	17.3	36.3	19.8	16.8	536
300	34.3	37.1	16.8	35.1	18.3	15.3	536
400	40.1	35.3	15.9	33.3	15.8	12.8	536
500	45.3	33.8	15.2	31.8	13.8	10.8	536

Melbourne
Head Office
7 Elata Drive
Tullamarine VIC, 3043
Ph: (03) 9338 9009
Fax: (03) 9338 5996
Sales@radum.com.au

Sydney
23 Harley Cresnet
Condell Park, NSW, 2223
Ph: (02) 9790 5777
Fax: (02) 9790 5788
Syd@radum.com.au

Queensland
30 Northlink Place
Virginia, QLD, 4014
P: +61 7 3256 7799
F: +61 7 3256 9899
E: qld@radum.com.au

Tasmania
39 Pitcairn Street,
Glenorchy, TAS, 7010
Ph: 1300 1 72386
Fax: (03) 6272 5755
Tas@radum.com.au

Western Australia
Unit 18, 9 Inspiration Dr
Wangara, WA, 6065
Ph: (08) 93039068
Fax: (08) 93039069
Wa@radum.com.au

New Zealand
17 Fairfax Avenue
Penrose, AUKLAND
P: 09 525 1269
F: 09 525 1262
E: nzl@radum.com.au