

CAT 6 A

S/FTP 4 PR AWG 23/1



CONDUCTOR	Solid copper conductor 23 AWG/1
INSULATION	Foam PE
PAIR SHIELDING	Aluminium foil
SHIELDING	Tinned copper wire braid
SHEATH	LSZH
REFERENCE STANDARD	IEC 61156-5 & ISO/IEC 11801

PHYSICAL PROPERTIES:

BENDING RADIUS (Installation)	8 x Ø
MAX. RECOMMENDED PULLING TENSION	80 N
NOMINAL OUTER Ø	7.1 ± 0.3 mm
CABLE WEIGHT	51 kg/km
CORE IDENTIFICATION	
Pair colours	1. White/Blue stripe & Blue 2. White/Orange stripe & Orange 3. White/Green stripe & Green 4. White/Brown stripe & Brown
PACKAGING	500 m drum, 1000 m drum

MAIN CHARACTERISTICS:

FIRE PERFORMANCE	Dca-s1a, d1, a1 IEC 60332-1-2 IEC 60332-3-2
MAX. CONDUCTOR DC RESISTANCE	93.8 Ω/km @20 °C
CONDUCTOR LOOP RESISTANCE	max. 19 Ω/100 m @20 °C
NOM. MUTUAL CAPACITANCE	≤ 5.6 nF/100 m @1 kHz
CAPACITANCE UNBALANCE PAIR TO GROUND	≤ 1600 pF/km @1 kHz
MIN. INSULATION RESISTANCE	5000 MΩ/m
IMPEDANCE	100 ± 25 Ω @100 MHz
RATED TEMPERATURE	75 °C
OPERATING TEMPERATURE RANGE	-20 °C - 75 °C

ITEM NUMBERS:

Part number	Cable type	Colour	Standard length m
3388124042	CAT 6A S/FTP AWG 23/1	Black	500 m
3388224042	CAT 6A S/FTP AWG 23/1	Yellow	500 m
3388324042	CAT 6A S/FTP AWG 23/1	Grey	500 m
3388424042	CAT 6A S/FTP AWG 23/1	White	500 m
3388524042	CAT 6A S/FTP AWG 23/1	Orange	500 m
3388624042	CAT 6A S/FTP AWG 23/1	Blue	500 m
3388724042	CAT 6A S/FTP AWG 23/1	Red	500 m
3388824042	CAT 6A S/FTP AWG 23/1	Green	500 m
3389124042	CAT 6A S/FTP AWG 23/1	Black	1000 m
3389224042	CAT 6A S/FTP AWG 23/1	Yellow	1000 m
3389324042	CAT 6A S/FTP AWG 23/1	Grey	1000 m
3389424042	CAT 6A S/FTP AWG 23/1	White	1000 m
3389524042	CAT 6A S/FTP AWG 23/1	Orange	1000 m
3389624042	CAT 6A S/FTP AWG 23/1	Blue	1000 m
3389724042	CAT 6A S/FTP AWG 23/1	Red	1000 m
3389824042	CAT 6A S/FTP AWG 23/1	Green	1000 m

PERFORMANCE:

F (MHz)	ATT (dB/100 m)	RL (dB)	NEXT (dB)	PS NEXT (dB)	ACRF (EL FEXT) (dB/100 m)	PS ACRF (PS EL FEXT) (dB/100 m)	PD (ns/100 m)
1.0	1.8	26	85	82	85	83	448
4.0	3.4	35	88	83	86	82	433
8.0	4.8	38	86	84	88	82	428
10.0	5.4	36	100	96	95	92	427
16.0	6.9	40	101	98	96	93	425
20.0	7.8	38	101	97	97	93	425
25.0	8.7	41	100	98	95	90	424
31.2	9.8	38	103	100	89	87	423
62.5	14.0	43	101	97	92	88	421
100.0	17.8	42	106	101	85	82	420
200.0	25.2	37	97	94	74	71	419
250.0	28.4	31	99	97	72	70	419
300.0	31.2	32	101	97	71	68	419
400.0	36.0	30	99	96	63	60	419
500.0	40.6	22	96	95	60	58	419

F = Frequency**ATT** = Attenuation**RL** = Return Loss**NEXT** = Near End Crosstalk**PS NEXT** = Power Sum Near End Crosstalk**ACRF (EL FEXT)** = Attenuation to Crosstalk Ratio Far End Crosstalk**PS ACRF (PS EL FEXT)** = Power Sum Attenuation to Crosstalk Ratio Far End Crosstalk**PD** = Phase Delay