

CAT 7

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

APPLICATION

Shielded twisted pair (S/FTP) design to minimize signal interference and attenuation, allowing for clearer signal transmission. ISO/IEC 11801 Class F cabling. Aimed at applications where transmission of frequencies up to 600 MHz is required. Max. speed 10 Gbps at 100 m.

PHYSICAL PROPERTIES

BENDING RADIUS (Installation)	8 x Ø
MAX. RECOMMENDED PULLING TENSION	80 N
NOMINAL OUTER Ø	7.7 ± 0.3 mm
CABLE WEIGHT	66 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
MARINE TYPE APPROVALS	DNV, LR, RINA

MAIN CHARACTERISTICS

FIRE PERFORMANCE	IEC 60332-1-2 IEC 60332-3-22
UV RESISTANCE (Black or grey cables only)	UL1581 section 1200
HALOGEN-FREE	IEC 60754 series
SMOKE EMISSION	IEC 61034 series
MAX. CONDUCTOR DC RESISTANCE	95 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 x m
IMPEDANCE	100 ± 25 Ω @100 MHz
RATED TEMPERATURE	75 °C
OPERATING TEMPERATURE RANGE	-20 °C - 75 °C

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Part number	Cable type	Colour	Standard length m
3340124042	CAT 7 S/FTP AWG 23/1	Black	500
3340224042	CAT 7 S/FTP AWG 23/1	Yellow	500
3340324042	CAT 7 S/FTP AWG 23/1	Grey	500
3340424042	CAT 7 S/FTP AWG 23/1	White	500
3340524042	CAT 7 S/FTP AWG 23/1	Orange	500
3340624042	CAT 7 S/FTP AWG 23/1	Blue	500
3340724042	CAT 7 S/FTP AWG 23/1	Red	500
3340824042	CAT 7 S/FTP AWG 23/1	Green	500
3341124042	CAT 7 S/FTP AWG 23/1	Black	1000
3341224042	CAT 7 S/FTP AWG 23/1	Yellow	1000
3341324042	CAT 7 S/FTP AWG 23/1	Grey	1000
3341424042	CAT 7 S/FTP AWG 23/1	White	1000
3341524042	CAT 7 S/FTP AWG 23/1	Orange	1000
3341624042	CAT 7 S/FTP AWG 23/1	Blue	1000
3341724042	CAT 7 S/FTP AWG 23/1	Red	1000
3341824042	CAT 7 S/FTP AWG 23/1	Green	1000

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)
4.0	3.6	30	98	95	96	92	449
8.0	5.0	32	98	95	94	89	444
10.0	5.6	35	98	95	91	90	442
16.0	7.2	35	98	95	81	76	440
20.0	8.1	38	99	96	81	77	439
25.0	9.1	39	98	95	84	76	438
31.2	10.0	39	97	94	83	77	437
62.5	14.5	34	95	92	79	76	436
100.0	17.7	32	92	89	82	73	435
200.0	26.1	30	88	85	69	66	434
250.0	27.9	28	86	83	74	65	434
300.0	31.9	27	86	83	69	64	433
400.0	37.8	28	83	80	59	56	433
500.0	40.7	23	81	78	56	51	433
600.0	45.8	25	80	77	58	52	433

- 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

