

CAT 7

S/FTP 4PR AWG 24/7



CONDUCTOR	Stranded copper conductor 24 AWG/7
INSULATION	Foam PE
PAIR SHIELDING	Aluminium foil
SHIELDING	Tinned copper wire braid
SHEATH	LSZH
REFERENCE STANDARD	IEC 61156-6 & ISO/IEC 11801

APPLICATION

Shielded twisted pair (S/FTP) design to minimize signal interference and attenuation, allowing for clearer signal transmission. 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	7.6 ± 0.3 mm
CABLE WEIGHT	61 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 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	148 Ω/km @20 °C
CONDUCTOR LOOP RESISTANCE	max. 29 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	80 °C
OPERATING TEMPERATURE RANGE	-20 °C - 75 °C

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Part number	Cable type	Colour	Standard length m
3360124042	CAT 7 S/FTP AWG 24/7	Black	500
3360224042	CAT 7 S/FTP AWG 24/7	Yellow	500
3360324042	CAT 7 S/FTP AWG 24/7	Grey	500
3360424042	CAT 7 S/FTP AWG 24/7	White	500
3360524042	CAT 7 S/FTP AWG 24/7	Orange	500
3360624042	CAT 7 S/FTP AWG 24/7	Blue	500
3360724042	CAT 7 S/FTP AWG 24/7	Red	500
3360824042	CAT 7 S/FTP AWG 24/7	Green	500
3361124042	CAT 7 S/FTP AWG 24/7	Black	1000
3361224042	CAT 7 S/FTP AWG 24/7	Yellow	1000
3361324042	CAT 7 S/FTP AWG 24/7	Grey	1000
3361424042	CAT 7 S/FTP AWG 24/7	White	1000
3361524042	CAT 7 S/FTP AWG 24/7	Orange	1000
3361624042	CAT 7 S/FTP AWG 24/7	Blue	1000
3361724042	CAT 7 S/FTP AWG 24/7	Red	1000
3361824042	CAT 7 S/FTP AWG 24/7	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)
1.0	2.6	34	91	84	92	89	485
4.0	4.9	33	93	85	90	87	463
8.0	7.0	35	93	88	93	90	457
10.0	7.7	38	104	97	102	99	455
16.0	9.8	34	110	103	107	104	452
20.0	11.1	34	107	101	108	105	451
25.0	12.5	39	114	107	111	108	450
31.2	14.1	39	110	104	111	108	449
62.5	20.2	40	112	106	114	111	447
100.0	25.9	43	113	107	118	115	445
200.0	36.9	35	111	103	111	108	444
250.0	41.4	28	109	103	109	106	443
300.0	45.7	29	109	103	112	109	443
400.0	53.3	38	108	101	112	109	443
500.0	60.1	31	110	97	110	107	443
600.0	66.2	27	111	102	111	108	442

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