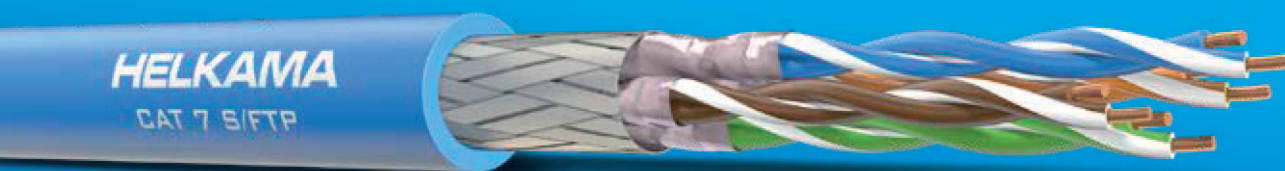


CAT 7

S/FTP 4 PR AWG 23/1



CONDUCTOR	Solid bare copper, 23 AWG/1
INSULATION	Foam PE
CONDUCTOR IDENTIFICATION	1. White/Blue (Stripe) & Blue 2. White/Orange (Stripe) & Orange 3. White/Green (Stripe) & Green 4. White/Brown (Stripe) & Brown
PAIR SHIELDING	Aluminium foil
SHIELDING	Tinned copper braid
SHEATH	LSZH
REFERENCE STANDARD	IEC 61156-5 ISO/IEC 11801

PHYSICAL PROPERTIES:

RATED TEMPERATURE	75 °C
OPERATING TEMPERATURE RANGE	-20 °C - 75 °C
MIN. BENDING RADIUS (INSTALL)	Installation 8 x diameter
MAX. RECOMMENDED PULLING TENSION	80 N
OUTER DIAMETER	7.7±0.3 mm
CABLE WEIGHT	66 kg/km

ELECTRICAL PROPERTIES:

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/m
MAX. OPERATING VOLTAGE	300 V
REACTION TO FIRE	Dca-s1a, d1, a1, IEC 60332-1-2, IEC 60332-3-22 (Cat. A)
IDENTIFICATION	Printed on the sheath: Manufacturer's name, Cable size, Cable type, Reaction to fire, Lot number, Production month and year, Meter marking
PACKAGING	500 m box, 1000 m drum

CAT 7

S/FTP 4 PR AWG 23/1

ITEM NUMBERS:

Part number	Item description	Colour	Part number	Item description	Colour
3340124042	HELKAMA S/FTP-CAT7, AWG23/1 500m	Black	3341124042	HELKAMA S/FTP-CAT7, AWG23/1 1000m	Black
3340224042	HELKAMA S/FTP-CAT7, AWG23/1 500m	Yellow	3341224042	HELKAMA S/FTP-CAT7, AWG23/1 1000m	Yellow
3340324042	HELKAMA S/FTP-CAT7, AWG23/1 500m	Grey	3341324042	HELKAMA S/FTP-CAT7, AWG23/1 1000m	Grey
3340424042	HELKAMA S/FTP-CAT7, AWG23/1 500m	White	3341424042	HELKAMA S/FTP-CAT7, AWG23/1 1000m	White
3340524042	HELKAMA S/FTP-CAT7, AWG23/1 500m	Orange	3341524042	HELKAMA S/FTP-CAT7, AWG23/1 1000m	Orange
3340624042	HELKAMA S/FTP-CAT7, AWG23/1 500m	Blue	3341624042	HELKAMA S/FTP-CAT7, AWG23/1 1000m	Blue
3340724042	HELKAMA S/FTP-CAT7, AWG23/1 500m	Red	3341724042	HELKAMA S/FTP-CAT7, AWG23/1 1000m	Red
3340824042	HELKAMA S/FTP-CAT7, AWG23/1 500m	Green	3341824042	HELKAMA S/FTP-CAT7, AWG23/1 1000m	Green

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	—	22			91	85	
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