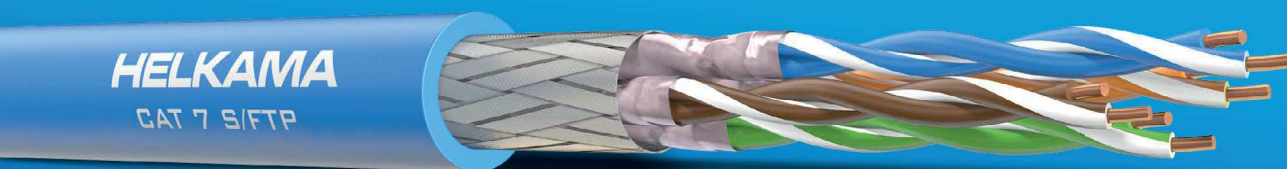


# CAT 7

## S/FTP 4 PR AWG 23/1



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

### PHYSICAL PROPERTIES:

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

### ELECTRICAL PROPERTIES:

<b>MAX. CONDUCTOR DC RESISTANCE</b>	95 Ω/km @20 °C
<b>CONDUCTOR LOOP RESISTANCE</b>	max. 19 Ω/100 m @20 °C
<b>NOM. MUTUAL CAPACITANCE</b>	≤5.6 nF/100 m @1 kHz
<b>CAPACITANCE UNBALANCE PAIR TO GROUND</b>	≤1600 pF/km @1 kHz
<b>MIN. INSULATION RESISTANCE</b>	5000 MΩ/m
<b>IMPEDANCE</b>	100±25 Ω @100 MHz
<b>FIRE PERFORMANCE</b>	Dca-s1a, d1, a1, IEC 60332-1-2, IEC 60332-3-22
<b>IDENTIFICATION</b>	Printed on the sheath: Manufacturer's name, Cable size and type, Fire performance, Lot number, Manufacturing date, Meter marking
<b>PACKAGING</b>	500 m drum, 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	S/FTP-CAT7, AWG23/1 1000m	Black
3340224042	HELKAMA S/FTP-CAT7, AWG23/1 500m	Yellow	3341224042	S/FTP-CAT7, AWG23/1 1000m	Yellow
3340324042	HELKAMA S/FTP-CAT7, AWG23/1 500m	Grey	3341324042	S/FTP-CAT7, AWG23/1 1000m	Grey
3340424042	HELKAMA S/FTP-CAT7, AWG23/1 500m	White	3341424042	S/FTP-CAT7, AWG23/1 1000m	White
3340524042	HELKAMA S/FTP-CAT7, AWG23/1 500m	Orange	3341524042	S/FTP-CAT7, AWG23/1 1000m	Orange
3340624042	HELKAMA S/FTP-CAT7, AWG23/1 500m	Blue	3341624042	S/FTP-CAT7, AWG23/1 1000m	Blue
3340724042	HELKAMA S/FTP-CAT7, AWG23/1 500m	Red	3341724042	S/FTP-CAT7, AWG23/1 1000m	Red
3340824042	HELKAMA S/FTP-CAT7, AWG23/1 500m	Green	3341824042	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)
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