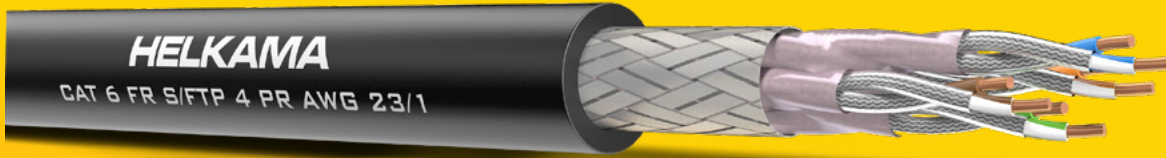


CAT 6 FR

S/FTP 4 PR AWG 23/1



CONDUCTOR	Solid copper conductor 23 AWG/1
INSULATION	Foam PE + mica tape
PAIR SHIELDING	Aluminium foil
SHIELDING	Tinned copper wire braid
SHEATH	LSZH (SHF1)
REFERENCE STANDARD	IEC 61156-5 & ISO/IEC 11801

PHYSICAL PROPERTIES:

BENDING RADIUS (Installation)	8 x Ø
MAX. RECOMMENDED PULLING TENSION	110 N
NOMINAL OUTER Ø	9.1 ± 0.6 mm
CABLE WEIGHT	94 kg/km
CORE IDENTIFICATION	
Pair colours	1. White/Blue 2. White/Orange 3. White/Green 4. White/Brown
PACKAGING	500 m drum, 1000 m drum
MARINE TYPE APPROVALS	Pending DNV, LR, RINA

MAIN CHARACTERISTICS:

FIRE PERFORMANCE	IEC 60332-1-2 IEC 60332-3-22
FIRE-RESISTANT	IEC 60331-23 / IEC 60331-2 (180 min)
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
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
3370124042	CAT 6 FR S/FTP AWG23/1	Black	500
3371124042	CAT 6 FR S/FTP AWG23/1	Black	1000
3370524042	CAT 6 FR S/FTP AWG23/1	Orange	500
3371524042	CAT 6 FR S/FTP AWG23/1	Orange	1000

PERFORMANCE:

F (MHz)	ATT (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	3.2	32	96	88	96	85	497
8	4.5	31	91	86	94	87	493
10	5.1	33	89	83	92	85	492
16	6.5	30	87	78	80	75	490
20	7.3	32	88	80	79	74	489
25	8.2	34	83	76	76	70	489
31.25	9.2	32	82	75	78	72	488
62.5	13.3	37	78	70	78	70	486
100	16.9	34	76	64	73	67	486
200	24.7	30	67	60	64	57	485
250	28.0	29	66	58	58	52	484

F = Frequency

ATT = Attenuation

RL = Return Loss

NEXT = 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