



S/FTP Cat 7 Marine Approved

BATT Part No:	77097
Application:	Flexible data cable for analogue and digital signal transmission for tertiary wiring in environments with increased electrical and mechanical requirements as well as for use on ships and offshore. With GL rating. Use: IEEE 802.3: 10/100/1000/10GBase-T; IEEE 802.5: FDDI, ISDN, ATM, Multimedia, PoE Copper strand, bare, AWG 23/7
Conductor:	SFS-PE
Core insulation:	whbu-bu, whor-or, whgn-gn, whbn-bn
Core identification:	cores twisted to layers
Core stranding:	pair screen (PIMF) (plastic-laminated aluminium foil); tinned copper wire braid
Screen:	halogen-free compound (FRNC); colour: orange RAL 2003
Sheath:	4 x 2 x AWG 23/7
Dimensions:	0.60mm
Sheath thickness:	8.2m
Diameter:	40ca.kg/km
Cable weight:	40 kg/km
Copper index:	350
calorific potential MJ / km:	15 Ω/100 m
Loop resistance max. (acc. to VDE 0812):	2 GΩ x km
Insulation resistance min. (20°C):	100 Ω}15 Ω
Char. impedance 1 – 100 MHz:	100 Ω}22 Ω
Char. impedance 100 – 250 MHz:	100 Ω}25 Ω
Char. impedance 250 – 1000 MHz:	3 mΩ / m
Transfer impedance max. (10 MHz):	45 nF/km
Mutual capacitance nom:	0,78 c
Relative propagation velocity ca:	. 75 dB
Screen attenuation ≤ 1000 MHz min:	700 V-AC
Test voltage:	0° C to + 50 °C
Temperature range during installation:	- 20 °C to + 60 °C
Temperature range stationary:	8 x diameter
Min. bending radius under tensile load:	4 x diameter
Min. bending radius without tensile load:	100 N
Maximum traction:	GL 86747-10HH; ISO/IEC 11801, 2nd edition, EN 50173-1; IEC 61156-5; EN 50288-4-1; EN 50288-4-2; IEC 60332-1; IEC 60332-3-22; IEC 60754-2; EN 61034; IEC 61034; RoHS 2002/95/EC
Standards:	



Transmission Characteristics

F (MHz)	Attenuation (dB/100m) Nom	NEXT (dB) Nom	ACR (dB/100m) Nom	EL-FEXT (dB/100m) Nom	RL (dB) Nom
1	1.8	105	103	95	25
4	3.4	105	102	93	28
10	5.4	105	100	92	30
16	6.8	105	98	91	30
20	7.6	105	97	90	30
31.25	9.7	105	95	86	30
62.5	14.0	103	89	82	30
100	17.8	100	82	77	30
155	22.3	98	76	73	28
200	25.4	95	70	70	27
250	29.3	94	65	69	26
300	31.4	93	62	67	25
400	36.5	90	53	64	24
500	40.5	87	46	62	23
600	45.2	85	40	60	23
800	52.0	83	31	56	21
900	57.3	81	24	53	20
1000	60.3	80	20	50	19