LanMarin® Cat 7 - Flex

S/FTP
AWG 23/7
SHF1, UV
DNV-GL, ABS

Application

Construction

Conductor	Flexible Bare Cu AWG 23/7 (7 x 0,23mm)
Insulation	Cellular PE Ø=1,55 ± 0,05 [mm]
No. of pairs	4
Colour code	IEC 60189-2
Individual Screen pairs	Al/PET
Overall Screen	Tinned Cu-braid ≥60% coverage
Jacket	Grey SHF1
O.D.	8,5 ± 0,30 [mm]
Weight	97 [kg/km]
Jacket marking NEK Kabel - LanMarin CAT7 S/FTP 4x2xAWG23/7 SHF1 - 60332-3-22 - DNV-GL - <batch no > - <DD/MM/YY> - <meter ma	

Specifications

Operating temperature	-40 – +80 [°C]
Temperature @ installation	-20 – +60 [°C]
Characteristic impedance	100±5 [Ω @ 1MHz]
Conductor resistance	≤ 73,2 [Ω/km]
Insulation resistance	≤ 5000 [MΩ x km] (IEC 61156-5)
Test voltage	1 [kV-DC 1 min.]
Capacitance unbalance	≤ 160 [pF/100m] @ 1 kHz (IEC 61156-5)
Min. bending radius	5 [x outer diam]
Min. bending radius flexible	10 [x outer diam]

Norms

Halogenfree, max content corrosive and toxic gases	IEC 60754-1, IEC 60754-2
Material properties, insulation and sheath	IEC 60092-360
Design and testing standards	IEC 61156-5
Flame resistance	IEC 60332-3-22 Cat.A
Flame retardant	IEC 60332-1
Weather resistant	IEC 60228
Oil and fuel, hydrocarbons resistant	IRM 902 23ºC / 7 days, 70°C / 4h
Smoke emission	IEC 61034-2 ≤ 60%
UV-resistant	UL 1581 (300H)
Certification	DNV-GL, ABS

RoHS CE

Part No.	1089726

Attenuation

Freq. [MHz]	Att. std [dB]	Att.typ [dB]	RL std [dB]	RLtyp [dB]	NEXTst [dB]	NEXTtyp [dB]	PSNEXTstd [dB]	PSNEXT typ [dB]	ELFEXT std [dB]	ELFEXT typ [dB]	
4	3,74	3,59	23,0	25,0	78,0	101,0	75,0	98,0	78,0	9,30	7
8	5,24	5,03	24,5	27,5	78,0	99,0	75,0	96,0	77,2	91,0	7
10	5,86	5,63	25,0	28,0	78,0	98,0	75,0	95,0	75,3	89,0	7
16	7,41	7,11	25,0	28,0	78,0	96,0	75,0	93,0	71,2	86,0	6
20	8,29	7,96	25,0	28,0	78,0	93,0	75,0	90,0	69,3	83,0	6
25	9,29	8,92	24,3	28,0	78,0	93,0	75,0	90,0	67,3	81,0	6
31,25	10,41	10,00	23,6	27,0	78,0	93,0	75,0	90,0	65,4	79,0	6
62,5	14,88	14,28	21,5	25,5	75,5	88,0	72,5	85,0	59,4	74,0	5
100	19,2	18,26	20,1	24,0	72,4	83,0	69,4	80,0	55,3	69,0	5
200	27,47	26,37	18,0	21,0	67,9	83,0	64,9	80,0	51,5	63,0	4
250	31,97	30,69	17,3	20,0	66,4	80,0	63,4	77,0	49,3	61,0	4
300	34,19	32,82	17,3	19,0	65,2	80,0	62,2	77,0	45,8	55,0	5
500	45,26	43,45	17,3	19,0	61,9	75,0	58,9	72,0	41,3	50,0	3
600	50,10	48,10	17,3	19,0	60,7	75,0	57,7	72,0	39,7	48,0	3

Updated

Date	Rev.	Description
April 2019	1	DNV-GL Approval