

LanMarin® Cat 6

U/UTP

Double jacket, SHF1, UV

250 MHz

DNV-GL

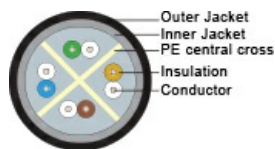
Application

Tough double jacketed halogenfree unscreened LAN cable, designed for ship- and offshore applications, and other harsh environments. Indoor/outdoor use. Excellent mechanical and fire retardant properties.



Construction

Conductor	Solid Plain Cu 0.57 [mm] AWG 23
Insulation	Cellular PE
No. of pairs	4 held by PE central cross
Colour code	IEC 60189-2
Inner jacket	SHF1 6.7 [mm]
Jacket	Black SHF1
O.D.	8.1 [mm]
Weight	80 [kg/km]
Jacket marking	NEK Kabel (week/year) LanMarin Cat 6 U/UTP SHF1 IEC60332-3-22 DNV-TK Lot metric marking



Specifications

Operating temperature	-40 – +90 [°C]
Characteristic Impedance @ 1MHz	100±15 [Ω]
Insulation resistance	5000 [Ω x km]
Capacitance pair	49 [nF/m - v/1KHz]
Velocity factor	0,7
Min. bending radius	4 [x outer diam]

Norms

Halogenfree, max content corrosive and toxic gases	IEC 60754-1 862
Material properties, insulation and sheath	IEC 60092-360 (359)
Design and testing standards	IEC 61156-5 IEC 60092-350
Flame retardant	IEC 60332-1
Toxic gases max.	EN 50305 9.2
Fire retardant	IEC 60332-3-22 Cat.A
Smoke emission	IEC 61034-1, -2
UV-resistant	ASTM G 154

Part No. 1089600



Frequency (MHz)	Attenuation Max. (dB/100m)	NEXT (dB)	Return loss (dB/100m)
4	3.3	74	
10	5.3	70.6	
16	6.8	68.7	
20	7.6	64.5	29.6
31.25	9.6	58.3	31
62.5	13.7	58.7	35.4
100	17.4	55.7	29.8
155	22.1	48.8	26.4
200	25.5	46.5	25.8
250	28.5	47.5	23

Updated

Date	Rev.	Description
Sept. 2016	1	Improved electrical data
Oct. 2019	2	Changed name from cat 6 U/UTP SHF1, to cat 6