

CABLE DIMENSIONING CHART

For vessels with Lopolight Ice Class lights – 24* Volt power supply from Lopolight NLC

Below please find minimum accepted cable size for installations for Lopolight Ice Class Navigation lights.

Calculation basis:

- All Lopolight Ice Class navigation lights except masthead lights: 15 Watt (defroster: 12W)
- Lopolight Ice Class masthead lights: 19 Watt (defroster: 12W)
- Acceptable voltage drop: from 27 Volts to 19 Volt (8 Volts drop)

Cable length (One-way distance from power source to light)		All Lopolight Ice class Navigation light except masthead lights		Lopolight Ice class masthead lights	
Feet	Meters	AWG	mm ²	AWG	mm ²
100	30	18	1,0	18	1,0
200	60	18	1,0	18	1,0
300	90	18	1,0	18	1,0
400	120	18	1,0	18	1,0
500	150	18	1,0	18	1,0
600	180	18	1,0	18	1,0
700	210	18	1,0	15	1,5
800	240	18	1,0	15	1,5
900	270	18	1,0	15	1,5
1000	300	15	1,5	15	1,5

*) The power supplied by a Lopolight NLC is calibrated to 28 VDC for the primary power supply and 27 VDC for the back-up power supply

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