

CABLE DIMENSIONING CHART

For vessels up to 50 meters - 12 Volt power supply

Below please find minimum recommended cable size for Lopolight installations

| Cable length (One-way distance from power source to light) | | All Lopolight Navigation lights (0.3A) | |
|--|--------|---|-----------------|
| Feet | Meters | AWG | mm ² |
| 50 | 15 | 22 | 0,5 |
| 100 | 30 | 22 | 0,5 |
| 200 | 60 | 20 | 1,0 |
| 300 | 90 | 20 | 1,0 |
| 400 | 120 | 18 | 1,6 |
| 500 | 150 | 18 | 1,6 |

*) Voltage drop allowed in above recommendation is within acceptable range

09AUG2017/JM

CABLE DIMENSIONING CHART

For vessels up to 50 meters - 24 Volt power supply

Below please find minimum recommended cable size for Lopolight installations

| Cable length (One-way distance from power source to light) | | All Lopolight Navigation lights (0.3A) | |
|--|--------|---|-----------------|
| Feet | Meters | AWG | mm ² |
| 50 | 15 | 22 | 0,5 |
| 100 | 30 | 22 | 0,5 |
| 200 | 60 | 22 | 0,5 |
| 300 | 90 | 22 | 0,5 |
| 400 | 120 | 20 | 1,0 |
| 500 | 150 | 19 | 1,3 |
| 600 | 180 | 19 | 1,3 |

*) Voltage drop allowed in above recommendation is within acceptable range

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CABLE DIMENSIONING CHART

For vessels over 50 meters - 24 Volt power supply

Below please find minimum recommended cable size for Lopolight installations

Lopolight Navigation lights.

| Cable length (One-way distance from power source to light) | | All Lopolight Navigation lights except masthead lights (0.3A) | | Lopolight <u>masthead</u> lights (0.6A) | |
|--|--------|---|-----------------|--|-----------------|
| Feet | Meters | AWG | mm ² | AWG | mm ² |
| 100 | 30 | 22 | 0,5 | 22 | 0,5 |
| 200 | 60 | 22 | 0,5 | 20 | 1,0 |
| 300 | 90 | 22 | 0,5 | 18 | 1,5 |
| 400 | 120 | 20 | 1,0 | 17 | 2,0 |
| 500 | 150 | 19 | 1,3 | 16 | 2,5 |
| 600 | 180 | 19 | 1,3 | 16 | 2,5 |
| 700 | 210 | 18 | 1,6 | 15 | 3,3 |
| 800 | 240 | 17 | 2,0 | 14 | 4,0 |
| 900 | 270 | 17 | 2,0 | 14 | 4,0 |
| 1000 | 300 | 16 | 2,5 | 13 | 5,0 |

*) Voltage drop allowed in above recommendation is within acceptable range

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CABLE DIMENSIONING CHART

For vessels with Ice Class lights - 24 Volt power supply

Below please find minimum recommended cable size for Lopolight installations

Lopolight *Ice Class* Navigation lights.

| Cable length (One-way distance from power source to light) | | All Lopolight Ice class Navigation light except masthead lights (1A) | | Lopolight Ice class <u>masthead</u> lights (1.5A) | |
|--|--------|--|-----------------|--|-----------------|
| Feet | Meters | AWG | mm ² | AWG | mm ² |
| 100 | 30 | 20 | 1,0 | 19 | 1,3 |
| 200 | 60 | 17 | 2,0 | 16 | 2,5 |
| 300 | 90 | 16 | 2,5 | 15 | 3,5 |
| 400 | 120 | 15 | 3,5 | 14 | 4,0 |
| 500 | 150 | 14 | 4,0 | 13 | 5,0 |
| 600 | 180 | 13 | 5,0 | 12 | 6,5 |
| 700 | 210 | 13 | 5,0 | 11 | 8,0 |
| 800 | 240 | 12 | 6,5 | 11 | 8,0 |
| 900 | 270 | 11 | 8,0 | 10 | 10,0 |
| 1000 | 300 | 11 | 8,0 | 10 | 10,0 |

*) Voltage drop allowed in above recommendation is within acceptable range

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