

LFMSGSGO 250 V

Light communication cables for marine with screen and screened pairs according to VG 95218 part 65



Application

For fixed installation on ships in all locations and on open decks. The definitions for installation in BV 3400 apply. The cables are certified from the Bundesamt für Ausrüstung, Informationstechnik und Nutzung der Bundeswehr (BAAINBw).

Global data

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|------------------|------------------|
| Type designation | LFMSGSGO |
| Standard | VG 95218 part 65 |

Design features

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|---------------------|--|
| Conductor | Copper, plain, round stranded, in accordance with VG 95218 part 65 |
| Insulation | Polyalkene compound |
| Core identification | In accordance with VG 95218 part 65 |
| Individual screen | Plain copper wire braid over pairs. Over the braid is a transparent foil. |
| Core arrangement | 2 cores shall be cabled together as pairs. The pairs shall be cabled together in concentric layers. Pilot and direction shall be the same in all layers. |
| Screen | Plain copper wire braid (double or single). Over the braid is a transparent foil. |
| Outer sheath | Compound from crosslinked olefine compound |
| Outer sheath colour | Black |

Electrical parameters

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|---------------------------------------|----------------------------------|
| Rated voltage | 250/250 V |
| Max. permissible operating voltage AC | 0.355 kV |
| AC test voltage | 2 kV |
| Near-end crosstalk attenuation (NEXT) | min. 100 dB (at 10 kHz) |
| Current Carrying Capacity description | The definitions in BV 3400 apply |

Chemical parameters

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|-------------------------|-------------------------|
| Smoke emission | according to VG 95218-2 |
| Acidity of fire gases | according to VG 95218-2 |
| Flame propagation | according to VG 95218-2 |
| Resistance to oil | according to VG 95218-2 |
| Resistance to chemicals | according to VG 95218-2 |

Thermal parameters

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|---|--------|
| Max. operating temperature of the conductor | 90 °C |
| Ambient temperature for fix installation min. | -30 °C |
| Laying temperature min. | -15 °C |

Mechanical parameters

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|------------------------------------|----------------------|
| Max. tensile load on the conductor | 50 N/mm ² |
| Bending radii min. | 5 x D |

| Number of cores x cross section | Part number | Designation acc. to VG 95218-Txxx Dash No. | MLFB Number | Conductor diameter max. mm | Outer diameter min. mm | Outer diameter max. mm | Bending radius fixed min. mm | Weight (approx.) kg/km | Permissible tensile force max. N | Current carrying capacity (1) A |
|---------------------------------|-------------|--|-------------|----------------------------|------------------------|------------------------|------------------------------|------------------------|----------------------------------|---------------------------------|
| 2x2x0,4 | 20320761 | T065A001 | 5BG5 620 | 0.85 | 9.3 | 10.5 | 53 | 155 | 80 | 5.1 |
| 4x2x0,4 | 20320762 | T065A002 | 5BG5 621 | 0.85 | 10 | 11.5 | 58 | 214 | 160 | 4 |
| 7x2x0,4 | 20320763 | T065A003 | 5BG5 622 | 0.85 | 12 | 13.7 | 69 | 320 | 280 | 3.3 |
| 12x2x0,4 | 20320764 | T065A004 | 5BG5 623 | 0.85 | 15.5 | 17 | 85 | 485 | 480 | 2.7 |
| 19x2x0,4 | 20320765 | T065A005 | 5BG5 624 | 0.85 | 18.4 | 20.4 | 102 | 715 | 760 | 2.3 |
| 27x2x0,4 | 20320766 | T065A006 | 5BG5 625 | 0.85 | 22.5 | 24.5 | 123 | 1010 | 1080 | 2.1 |

(1) The values are for continuous load at 45 °C ambient temperature, one cable installed on a surface.