

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

Type designation	LFMSGSGO
Standard	VG 95218 part 65

Design features

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

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

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

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

Mechanical parameters

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.