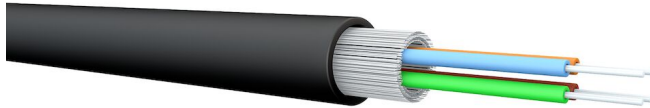


OCEANLINE DISTRIBUTION CABLE DI LSHF-FR ES9

OLF01 Ship distribution cable, 2-24f, SHF1 sheath



GENERAL INFO

This distribution or mini-break-out cable can be used for lighter industrial, shipboard and oil & gas applications. It is mainly for indoor use, but in areas with limited UV-radiation, it may also be installed outdoors. The outer sheath is made from black UV-stabilized and weather resistant material which is SHF1 classified, and may be exposed for shorter periods to fluids such as diesel and mineral oils. The cable features Draka's ES9 tight buffer. The cable features aramid yarns for ease of installation. The cable is suited for installation in ducts and on cable ladders/trays.

CABLE FEATURES

- Fiber optic cable as mini breakout design for structured cabling.
- The jacket is made of halogen-free, flame-retardant material according to IEC 60332-1-2; IEC 60332-3-24; IEC 60754-2; IEC 61034.
- The fiber optic cable exceeds the requirements of EN50173-1, ISO/IEC11801 and EN/IEC60794-2.

More information on fiber optic cable applications: [read more](#)

Latest version of this data sheet is available for download: [ProductFamily349488](#)

CERTIFICATIONS AND DESIGN STANDARDS



ISO/IEC 11801
EN 50173
IEC 60794-1-1
IEC 60794-1-21
IEC 60794-1-22

Generic telecom cabling for customer premises
Information technology - Generic cabling systems
Generic Specification Fibre Optic Cables
Mechanical Test Methods
Environmental Test Procedures

APPLICATION PROPERTIES

Resistant to UV

Outdoor installation With rodent protection

Operation temperature (min) [°C]*

Installation temperature (min) [°C]

Storage temperature (min) [°C]

Bending radius (rule)

Not applicable

-40 and (max) [°C] 70

-20 and (max) [°C] 70

-40 and (max) [°C] 70

During installation (loaded) = 20xOD, Permanent (unloaded) = 10xOD

*Temperature range recommended for cable installation, operation and storage tested according to the IEC 60794-1-22 F1.

CABLE CONSTRUCTION

Type of tube	2 - 24 tightly buffered fibres 900 µm ± 50 µm
Longitudinal water blocking cable	No
Material outer sheath	Low smoke zero halogen, FireRes®
Cable shape	Round
Cable marking example	DRAKA OceanLine

IDENTIFICATION

Tight buffer colour code	1 Red	13 Red w/mark every 70mm
<i>in accordance with IEC 60794-3 and VDE 0888 read more</i>	2 Green	14 Green w/mark every 70mm
<i>* Fibre is uncoloured.</i>	3 Blue	15 Blue w/mark every 70mm
	4 Yellow	16 Yellow w/mark every 70mm
	5 White	17 White w/mark every 70mm
	6 Grey	18 Grey w/mark every 70mm
	7 Brown	19 Brown w/mark every 70mm
	8 Violet	20 Violet w/mark every 70mm
	9 Turquoise	21 Turquoise w/mark every 70mm
	10 Black	22 White w/mark every 35mm
	11 Orange	23 Orange w/mark every 70mm
	12 Pink	24 Pink w/mark every 70mm

Sheath color	Black, RAL 9005
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MECHANICAL PROPERTIES

Crush test	IEC 60794-1-21 E3	3,000 N/10cm
Impact test	IEC 60794-1-21 E4	20 N·m
Torsion test	IEC 60794-1-21 E7	5 cycles ±1turn
Kink test	IEC 60794-1-21 E10	The cables do not form a kink when a loop is drawn together to a diameter 12 times the cable nominal diameter.

CABLE DETAILS

Number of fibres	Nominal outer diameter [mm]	Nominal thickness outer sheath [mm]	Permanent tensile strength [N]	Max. tensile strength during installation [kN]	Cable weight [kg/km]	Fire load [MJ/km]
4	4.9		280	1	26	476
8	6		280	1	35.5	661
12	6.4		280	1.2	42.5	763

* Maximum tensile strength during installation in accordance with IEC 60794-1-21 E1.

ORDERING DETAILS

Product name	Colour outer sheath	Number of fibres	Category (fibre)	Fibre datasheet	DOP number	SAP code
OCEANLINE I DI LSHF-FR ES9 4 SM7B BK	Black	4	OS2	C24	1008735	60076671
OCEANLINE I DI LSHF-FR ES9 12 SM7B BK	Black	12	OS2	C24	1009071	60077825
OCEANLINE I DI LSHF-FR ES9 12 SM2D BK	Black	12	OS2	C24	1009460	60078543
OCEANLINE I DI LSHF-FR ES9 4 OM2B BK	Black	4	OM2	C34	1008723	60076668
OCEANLINE I DI LSHF-FR ES9 8 OM2B BK	Black	8	OM2	C34	1009081	60076667
OCEANLINE I DI LSHF-FR ES9 4 OM3B BK	Black	4	OM3	C31	1008733	60076669
OCEANLINE I DI LSHF-FR ES9 12 OM3B BK	Black	12	OM3	C31	1008734	60076670
OCEANLINE I DI LSHF-FR ES9 8 OM4B BK	Black	8	OM4	C32	1008916	60077286
OCEANLINE I DI LSHF-FR ES9 12 OM4B BK	Black	12	OM4	C32	1009471	60078550
OCEANLINE I DI LSHF-FR ES9 4 MM61 BK	Black	4	OM1	C02	1008721	60076665
OCEANLINE I DI LSHF-FR ES9 8 MM61 BK	Black	8	OM1	C02	1008732	60076666

**DoP Numbers are per product code and any DoP number proves CPR approval for the cable. DoP files can be downloaded from the website: [DoP](#)*

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