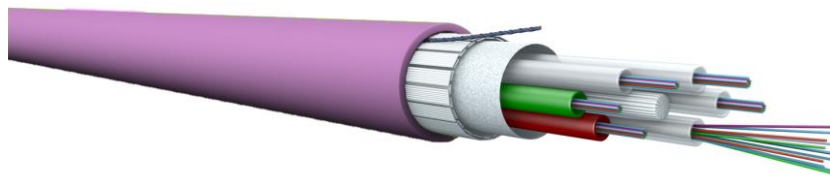


Stranded Loose Tube Cable for Marine Application



Application and Installation

Universal optical cable for lighter industrial, shipboard, and oil & gas applications, for mixed indoor and limited outdoor installation.

It is equally suited for installation in ducts and on trays.

Standards

IEC 60332-1-2; IEC 60332-3-24; IEC 60754-2; IEC 61034-1/2

Construction

Central strength member	ø2.5 mm FRP rod
Loose tube	ø2.3 mm gel-filled loose tubes, with 12 fibres each for lay-up refer to B04
Water blocking	The core is water blocked using swellable tape and tread
Wrapping	Polyester nonwoven
Reinforcement	Layer of glass fibre yarns as reinforcement and rodent protection
Ripcord	Polyester ripcord for easy slitting of the sheath
Sheath	1.5 mm LSHF-FR sheath, halogen free, flame retardant, SHF1
Sheath marking	DRAKA OceanLine OLF03 LSHF-FR <Fibre count><Fibre type><Fibre brand> <Item No><Factory No><Batch Number><Meter mark> U-DQ(ZN)BH <Number of Elements> x <Fibre count per element> <Fibre family> <Mode field diameter> /125 <Transmission Class>

Dimensions

Attribute	Limits							
	12	24	36	48	72	96	144	
Fibre count	12	24	36	48	72	96	144	
Fibre Distribution	1x12f	2x12f	3x12f	4x12f	6x12f	8x12f	12x12f	
Nominal diameter [mm]	11.2	11.2	11.2	11.2	11.2	12.8	15.6	
Nominal weight [kg/km]	117	120	125	127	137	167	257	

Physical Properties

Attribute	IEC 60794-1-21/22 Method	Limits							
		12	24	36	48	72	96	144	
Fibre count	-	12	24	36	48	72	96	144	
Short term tensile strength [N]	E1	5000 (fibre strain ≤ 0.6%) 4000 (fibre strain ≤ 0.5%)							
Permanent tensile strength [N]	E1	1800 (fibre strain ≤ 0.2%)							
Crush (compressive strength) [N/100 mm]	E3	2500							
Impact [J]	E4	15							
Torsion	E7	5 cycles ± 1 turn							
Kink	E10	The cables do not form a kink when a loop is drawn together to a diameter of 12 times the cable nominal diameter							
Minimum Installation bending radius (loaded) [mm]	-	224	224	224	224	224	256	312	
Minimum Permanent bending radius (unloaded) [mm]	E11	112	112	112	112	112	128	156	
Temperature range	F1	-20 °C to 60 °C							
Water penetration	F5	No water on free end							

Cable Sheath colours	Cable with SM fibres: BendBright ^{XS} G.657.A2, BendBright G.657.A1	Yellow, RAL 1018
	Cable with mixed fibre types (hybrid)	Blue, RAL 5015
	Cable with OM1	Grey, RAL 7037
	Cable with MaxCap-BendBright-OM2	Orange, RAL 2009
	Cable with MaxCap-BendBright-OM3	Aqua, RAL 6027
	Cable with MaxCap-BendBright-OM4	Erika-Violet, RAL 4003
	Cable with BendBright WideCap-OM5	Lime-Green

Color code

Fibre colour code	1	Red	13	Red w/mark every 70mm
	2	Green	14	Green w/mark every 70mm
	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

Product Codes

Product Code	Product Description	Fibre Count	Fibre Type	Fibre Data Sheet
60115020	OL I/O ST LSHF-FR 5.0kN 12 OM3B AQ	12	MaxCap-BB-OM3	C31
	OL I/O ST LSHF-FR 5.0kN 4x12 OM3B AQ	48	MaxCap-BB-OM3	C31
	OL I/O ST LSHF-FR 5.0kN 5x12 OM3B AQ	60	MaxCap-BB-OM3	C31
	OL I/O ST LSHF-FR 5.0kN 6x12 OM3B AQ	72	MaxCap-BB-OM3	C31
	OL I/O ST LSHF-FR 5.0kN 8x12 OM3B AQ	96	MaxCap-BB-OM3	C31
60109870	OL I/O ST LSHF-FR 5.0kN 1x12 OM4B 4003	12	MaxCap-BB-OM4	C32
60107335	OL I/O ST LSHF-FR 5.0kN 2x12 OM4B 4003	24	MaxCap-BB-OM4	C32
	OL I/O ST LSHF-FR 5.0kN 3x12 OM4B 4003	36	MaxCap-BB-OM4	C32
	OL I/O ST LSHF-FR 5.0kN 4x12 OM4B 4003	48	MaxCap-BB-OM4	C32
60109997	OL I/O ST LSHF-FR 5.0kN 6x12 OM4B 4003	72	MaxCap-BB-OM4	C32
60115509	OL I/O ST LSHF-FR 5.0kN 8x12 OM4B 4003	96	MaxCap-BB-OM4	C32
	OL I/O ST LSHF-FR 5.0kN 3x12 OM5B LG	36	WideCap-OM5	C39
60117899	OL I/O ST LSHF-FR 5.0kN 2x12 OM5B LG	24	WideCap-OM5	C39
	OL I/O ST LSHF-FR 5.0kN 4x12 OM5B LG	48	WideCap-OM5	C39
	OL I/O ST LSHF-FR 5.0kN 6x12 OM5B LG	72	WideCap-OM5	C39
	OL I/O ST LSHF-FR 5.0kN 8x12 OM5B LG	96	WideCap-OM5	C39
60112318	OL I/O ST LSHF-FR 5.0kN 1x12 SM7A1 YL	12	OS2 BendBright G.657.A1	C17
60110577	OL I/O ST LSHF-FR 5.0kN 2x12 SM7A1 YL	24	OS2 BendBright G.657.A1	C17
	OL I/O ST LSHF-FR 5.0kN 3x12 SM7A1 YL	36	OS2 BendBright G.657.A1	C17
60119648	OL I/O ST LSHF-FR 5.0kN 4x12 SM7A1 YL	48	OS2 BendBright G.657.A1	C17
	OL I/O ST LSHF-FR 5.0kN 5x12 SM7A1 YL	60	OS2 BendBright G.657.A1	C17
	OL I/O ST LSHF-FR 5.0kN 6x12 SM7A1 YL	72	OS2 BendBright G.657.A1	C17
	OL I/O ST LSHF-FR 5.0kN 8x12 SM7A1 YL	96	OS2 BendBright G.657.A1	C17
	OL I/O ST LSHF-FR 5.0kN 2x12 SM7B YL	24	OS2 BendBright ^{XS} G.657.A2	C24
	OL I/O ST LSHF-FR 5.0kN 3x12 SM7B YL	36	OS2 BendBright ^{XS} G.657.A2	C24
	OL I/O ST LSHF-FR 5.0kN 4x12 SM7B YL	48	OS2 BendBright ^{XS} G.657.A2	C24
	OL I/O ST LSHF-FR 5.0kN 6x12 SM7B YL	72	OS2 BendBright ^{XS} G.657.A2	C24
	OL I/O ST LSHF-FR 5.0kN 8x12 SM7B YL	96	OS2 BendBright ^{XS} G.657.A2	C24
	OL I/O ST LSHF-FR 5.0kN 12x12 SM7B YL	144	OS2 BendBright ^{XS} G.657.A2	C24
	OL I/O ST LSHF-FR 5.0kN 4x12 MM61 SL	48	OM1 62.5/125	C02
	OL I/O ST LSHF-FR 5.0kN 8x12 MM61 SL	96	OM1 62.5/125	C02
	OL I/O ST LSHF-FR 5.0kN 12x12 MM61 SL	144	OM1 62.5/125	C02