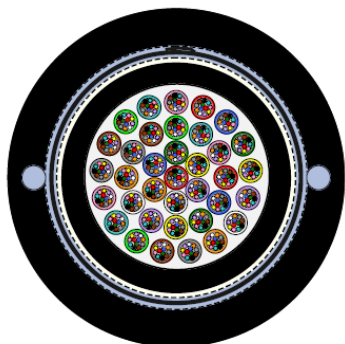


Product Specification

Eurolan outdoor steel wire cable 144-288 fibre, 39L-S1-XX-BL



- Micro-Modules: Thin wall tubing (FlexTubes®), filled with a suitable water tightness compound, housing 12 single-mode optical fibres.
- Longitudinal Water Tightness: dry core with water swellable elements.
- Inner Sheath: 1 ripcord underneath the sheath.
- Armour: both sides copolymer coated corrugated steel tape with overlap, water swellable elements. Steel thickness: 0.15 mm. 2 ripcords beneath the tape.
- Peripheral Strength Elements: galvanized steel wires.
- Outer Sheath: HDPE.

Ordering information

Part number	Description
39L-S1-144-15BL	Eurolan 144x9/125 steel wire cable PE Black
39L-S1-192-15BL	Eurolan 192x9/125 steel wire cable PE Black
39L-S1-288-15BL	Eurolan 288x9/125 steel wire cable PE Black

Applications

These cables are used in access networks.

Universal optical fibre cable for duct and direct burial installation.

Excellent for arctic climate when the soil around the cable can be frozen.

Crew friendly installation.

Technical data

No. of Fibres		48	96	192	288	432
Design		4x12	8x12	16x12	24x12	36x12
Micro-module - Ø	mm	1.3				
Cable Diameter	mm	14.5	15.8	17		19
Cable Weight	kg / km	215	250	290		335
Minimum Bending Radius	mm	Without Tension 20 x Cable-Ø			Under Maximum Tension 25 x Cable-Ø	
Temperature Range	°C	Installation - 15 to + 60		Transport & Storage - 45 to + 60		Operation - 45 to + 60

Please refer to our General Installation, Safety & Handling recommendations before handling.

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Test	Test Standard	Specified Value	Acceptance Criteria
Max. Installation Tension	IEC 60794-1-2-E1	5000 N 3500 N	$\Delta\alpha$ reversible, fibre strain $\leq 0.33\%$ $\Delta\alpha \leq 0.05$ dB, fibre strain $\leq 0.33\%$
Crush	IEC 60794-1-2-E3	6000 N / 100 mm, max. 15 min 2000 N / 25 mm ϕ , max. 15 min	$\Delta\alpha \leq 0.05$ dB, no damage $\Delta\alpha \leq 0.05$ dB, no damage
Impact	IEC 60794-1-2-E4	30 Nm, 3 impacts, R= 300 mm	$\Delta\alpha \leq 0.05$ dB after the test
Torsion	IEC 60794-1-2-E7	100N, +/- 1 turn, 5 cycles	$\Delta\alpha \leq 0.10$ dB, no damage
Repeated Bending	IEC 60794-1-2-E6	R=20x D, 100 N, 50 cycles	no damage
Cable Bend	IEC 60794-1-2-E11	R=20x D, 5 turns, 3 cycles	$\Delta\alpha \leq 0.05$ dB, no damage
Temperature Cycling	IEC 60794-1-2-F1	-15°C to +30°C -15°C to -45°C and 30°C to +60°C	$\Delta\alpha \leq 0.05$ dB/km $\Delta\alpha \leq 0.10$ dB/km, $\Delta\alpha$ reversible
Water Penetration	IEC 60794-1-2-F5B	sample=3 m, water column=1 m	no water leakage in 24 h

All optical measurements at 1550 nm.

Fibre Colours

No.	1	2	3	4	5	6	7	8	9	10	11	12
Colour	blue	white	yellow	green	grey	orange	brown	aqua	black	violet	pink	red

Micro-Module Colours

No.	1	2	3	4	5	6	7	8	9	10	11	12
Colour	blue	white	yellow	green	grey	orange	brown	aqua	black	violet	pink	red

No.	13	14	15	16	17	18	19	20	21	22	23	24
Colour	blue ¹	white ¹	yellow ¹	green ¹	grey ¹	orange ¹	brown ¹	aqua ¹	white ²	violet ¹	pink ¹	red ¹

No.	25	26	27	28	29	30	31	32	33	34	35	36
Colour	blue ²	white ³	yellow ²	green ²	grey ²	orange ²	brown ²	aqua ²	white ⁴	violet ²	pink ²	red ²

<colour>¹ with evenly spaced black ring marks

<colour>² with evenly spaced double black ring marks

<colour>³ with evenly spaced triple black ring marks

<colour>⁴ with evenly spaced quadruple black ring marks