

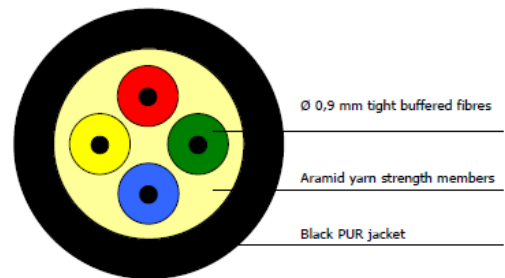
LD optical cable for mobile and tactical use

Description:

This specification covers optical cables with 2 – 12 fibers. This cable type has a number of tight buffered optical fibers, surrounded by a heavy layer of aramid yarns. The jacket made of polyurethane. The cable is suitable for indoor and outdoor use. The cable has low abrasion and good cut resistance.



tactical cable, type: LD-04-OM2-PUR-BK



Construction:

Optical Fibers

The cable can be supplied with SMF 9/125 μm or 50/125 μm and 62.5/125 μm multimode fibers. For fiber properties, see the appropriate Fiber Specification. The fibers are individually color-coded for easy identification.

Cable Core

The cable core consists of a number of 900 μm tight buffered fibers, surrounded by a heavy layer of aramid yarns.

Sheath

The cable sheath consists of a black polyurethane sheath. The polyurethane sheath has extremely good tear resistance and very good low-temperature flexibility. It has excellent resistance to microorganisms and towards hydrolysis.

Fiber (uncolored): SM 9/125, MM 50/125; MM 62,5/125
Buffer - tight: strip in one shot 0.5 - 10 cm
Material: PU-LSZH
Color: 1st to 12th: red, green, blue, yellow, white, grey, brown, violet, turquoise, black, orange, pink,

Other buffer colors available on request.

Strength member: Water blocking Aramid yarn
RIP-cord: 1× under outer jacket
Outer jacket: PU-LSZH - Polyurethane, Low Smoke Zero Halogen, UV stable, black

Applications:

- Army and air force tactical networks
- Oil research, heavy industry
- Broadcasting
- Connection to and of moving objects

Mechanical and Environmental properties:

Parameter	Reference according to IEC 794-1	Value
Max. tensile strength	*E1A	see table bellow
Crush resistance	*E3	440 N/cm
Impact resistance	*E4	200 impacts
Minimal bending radius	*E11A	10× Outer diameter
Temperature range	*F1	-45°C to +85°C
Cable informative nominal weight(calc.)		see table bellow
Standard put-up length		2100 m, 4100 m
Drum size		see table bellow
Buffer nominal diameter		0,9 ± 0,05 mm

* IEC 60794-1-2, TIA/EIA-455-41 and TIA/EIA-455-25 military request

Number of fiber	Max. tensile strength (perm/install)	Outer jacket min.	Outer diameter	Cable inf. weight (calc.)	Plywood drum
	(N)	(mm)	(mm)	(kg/km)	(2100 m)
2	1000/1800	0,8	5.6 ± 0,3	25	60×30×39
4	1000/1800	0,8	5.9 ± 0,3	27	60×30×39
6	1000/1800	0,8	6.3 ± 0,3	32	75,5×30×39
8	1000/1800	0,8	7.0 ± 0,3	39	75,5×30×39
12	1000/1800	0,8	7.8 ± 0,3	50	75,5×30×39

Ordering code:

LD	XX - YY	XX - (YY)
Cable type LD Military tactical	Fiber XX - Number 2-12 YY - Type S2D 9/125 μm, G.652D S7A ¹ 9/125 μm, G.657A S7B2 9/125 μm, G.657B2 OM1 62.5/125, optimized 1 Gbps OM2 50/125, optimized 1 Gbps OM3 50/125, optimized 10 Gbps	Cable jacket XX - Jacket PUR Polyurethane (YY) - Color BK Black

Note: 1) S7A - G.657A1 standard fiber type, other on request