

## LC Trunkcable

### Features

- Plug and Play for easy and fast installation
- Fan-out lengths from 0.5 up to 1.5 meters
- Delivered with optional pulling eye
- LSZH jacket material
- Bend-insensitive fiber for multi-mode and singlemode
- Test report supplied with each cable assembly



### Technical data

Criteria	Date /value
Connector type(side A)	LC / LC duplex / unibootquick-release (LC-QR)
Frame color connector (side A)	black / beige (multimode), blue (singlemode-PC), green (singlemode-APC) Polishing
connector(side A)	PC (multimode/singlemode), APC 8° (singlemode)
Fan-out length(side A)	0.5m to 1.5m
Connector type(side B)	LC / LC duplex / unibootquick-release (LC-QR)
Frame color connector (side B)	black / beige (multimode), blue (singlemode-PC), green (singlemode-APC) Polishing
connector(side B)	PC (multimode/singlemode), APC 8° (singlemode)
Fan-out length(side B)	0.5m to 1.5m
Type of protection connector	IP20
Cable color	lime green (OM5), heather violet (OM4), turquoise (OM3), yellow (OS2)
Fiber class	MM G50/125µm OM5, MM G50/125µm OM4, MM G50/125µm OM3, SM E9/125µm
Cord type	Minicore cable, round (strength member: aramid yarn)

### Optical performance

Optical performance	Multimode	Singlemode
Insertion Loss*	LC	LC
typical	≤0.10dB	≤0.12dB
max.	≤0.25dB	≤0.25dB
Return Loss*	≥45dB	≥45dB

\*The values stated were determined in accordance with the measurement procedures prescribed by IEC 61300-3-4, IEC 61300-3-6 respectively. If other measuring methods are used, deviating values may be obtained

### Mechanical characteristics

Criteria	Date /value
Mating cycles	<1000

### Environmental characteristics

Criteria	Date /value
Operating Temp.Connector [°C]	-40°C to +70°C
Operating Temp.Cable [°C]	-20°C to +60°C

## Fiber

	G652.D (OS2) Singlemode	OM3 Multimode	OM4 Multimode	OM5 Multimode
Wavelength [nm]	1310 / 1550	850 / 1300	850 / 1300	850 / 953
Attenuation [dB/km]	0.4 / 0.3	≤ 3.0 / ≤ 1.0	≤ 3.0 / ≤ 1.0	≤ 3,0 / ≤ 1,8
Bandwidth OFL [MHz•km]	-	≥1500 / ≥500	≥3500 / ≥500	≥ 3500 / ≥ 1850
Effective Modal Bandwidth [MHz•km]	-	≥2000 / -	≥4700 / -	≥ 4700 / ≥ 2470

## Cable

	Fiber	OFNP	OFNR	LSZH
		Single / double jacket	Single / double jacket	Single / double jacket
Outer Diameter [mm]	12	3.0 / 4.5	3.0 / 4.5	3.0 / 4.5
	24	3.5 / 5.0	3.5 / 5.0	3.5 / 5.0
	36	- / 9.0	- / 9.0	- / 9.0
	48	- / 9.0	- / 9.0	- / 9.0
	72	- / 7.5	- / 7.5	- / 7.5
	144	- / 9.0	- / 9.0	- / 9.0
	Weight [kg/km]	12	14.0 / 23.0	14.0 / 23.0
24		30.0 / 52.0	30.0 / 52.0	30.0 / 52.0
36		- / 81.0	- / 81.0	- / 81.0
48		- / 91.0	- / 91.0	- / 91.0
72		- / 50	- / 50	- / 50
144		- / 70	- / 70	- / 70
Minimum Bending Radius [mm] (during installation)		12	60	60
	24	120	120	120
	36	180	180	180
	48	180	180	180
	72	50	50	50
	144	60	60	60
	Minimum Bending Radius [mm] (installed)	12	30	30
24		60	60	60
36		90	90	90
48		90	90	90
72		112	112	112
144		60	60	60
Maximum Tensile Force [N] (during installation)		12	200 / 400	200 / 400
	24	200 / 400	200 / 400	200 / 400
	36	- / 1000	- / 1000	- / 1000
	48	- / 1000	- / 1000	- / 1000
	72	- / 1000	- / 1000	- / 1000
	144	- / 1000	- / 1000	- / 1000
	Maximum Tensile Force [N] (installed)	12	100 / 200	100 / 200
24		100 / 200	100 / 200	100 / 200
36		- / 300	- / 300	- / 300
48		- / 300	- / 300	- / 300
72		- / 300	- / 300	- / 300
144		- / 300	- / 300	- / 300

## Standards

IEC 61754-7	Geometrical requirements MPO/MTP
IEC 61754-20	Geometrical requirements LC
IEC 61300-3-4	Insertion Loss (Method: against Reference)
IEC 61300-3-6	Return Loss

## Ordering Information

FA-	L				-	LU			N	M			-	LU			N	M			-	B		N
		1	2	3			4	5		6	7			8	9		10	11				12		

- 1** Choose fiber count  
 12 = 12 fibers\*  
 24 = 24 fibers\*  
 36 = 36 fibers  
 48 = 48 fibers  
 72 = 72 fibers  
 144 = 144 fibers

- 2** Choose fiber type  
 S3Y = singlemode (OS2)  
 M3T = multimode (OM3)  
 M4H = multimode (OM4)  
 M5L = multimode (OM5)

- 3** Choose jacket type  
 S = standard jacket  
 D = ruggedized jacket

- 4** Choose polish angle  
 0 if multimode or singlemode PC  
 8 if singlemode APC

- 5** Choose grade for LC uniboot  
 A = Grade A<sub>m</sub> if multimode  
 B = Grade B if singlemode  
 C = Grade C if singlemode

- 6** Choose staggering scheme  
 05 = fanout length 0.5 m  
 08 = fanout length 0.8 m  
 10 = fanout length 1.0 m  
 15 = fanout length 1.5 m  
 S1 = Suited for RCM

- 7** Choose grip scheme on end A  
 P = with grip  
 O = without grip

- 8** Choose polish angle  
 0 if multimode or singlemode PC  
 8 if singlemode APC

- 9** Choose grade for LC uniboot  
 A = Grade A<sub>m</sub> if multimode  
 B = Grade B if singlemode  
 C = Grade C if singlemode

- 10** Choose staggering scheme  
 05 = fanout length 0.5 m  
 08 = fanout length 0.8 m  
 10 = fanout length 1.0 m  
 15 = fanout length 1.5 m  
 S1 = Suited for RCM

- 11** Choose grip scheme on end B  
 P = with grip  
 O = without grip

- 12** Choose cable length from endface to endface  
 1,1 – 150 m (standard jacket)  
 1,1 – 400 m (ruggedized jacket)

\* OM5 with 12 and 24 fibers only