

Optical Plug & Play cable

P/N: PP-SCSC-vv-yyy-xxx-rrr	P/N: PP-LCLC-vv-yyy-xxx-rrr
P/N: PP-SCLC-vv-yyy-xxx-rrr	P/N: PP-SCSCA-vv-yyy-xxx-rrr
P/N: PP-LLCA-vv-yyy-xxx-rrr	P/N: PP-SCLCA-vv-yyy-xxx-rrr
P/N: PP-LCSCA-vv-yyy-xxx-rrr	P/N: PP-SCASCA-vv-yyy-xxx-rrr
P/N: PP-LCALCA-vv-yyy-xxx-rrr	P/N: PP-SCALCA-vv-yyy-xxx-rrr

Note vv - number of fibers /4, 8, 12, 24/
 yyy - performance category /OM3, OM4, OS2/
 xxx - cable length in m
 rrr - reaction to fire /E_{ca}, D_{ca}, B2_{ca}/



OM3 multimode	OM4 multimode	OS2 singlemode	LSOH	LSFR0H
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E_{ca}	D_{ca}	B2_{ca}
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Features

- allows the creation of optical routes without the need to use external capacities and technologies to terminate the optical cable
- cost-effective solution compared to terminating the cable at the installation site
- comes with protection against damage to the connectors during transport and installation
- if necessary, it allows direct connection of active devices without the use of patch panels and patch cables
- supplied with measurement protocols from OTDR

Connector properties

Connector SC	multimode OM3, OM4		singlemode OS2
Polishing	PC	PC	APC
Return loss	≥ 20 dB	≥ 55 dB	≥ 65 dB
Insertion loss	≤ 0,3 dB	0,15 dB	0,15 dB
Ferrule material	ceramic (zirconia)	ceramic (zirconia)	ceramic (zirconia)
Ferrule diameter	2,5 mm	2,5 mm	2,5 mm
Insertion / extraction cycles	min. 1 000	min. 1 000	min. 1 000

Connector properties

Connector LC	multimode OM3, OM4	singlemode OS2	
Polishing	PC	PC	APC
Return loss	≥ 20 dB	≥ 55 dB	≥ 65 dB
Insertion loss	≤ 0,3 dB	0,15 dB	0,15 dB
Ferrule material	ceramic (zirconia)	ceramic (zirconia)	ceramic (zirconia)
Ferrule diameter	1,25 mm	1,25 mm	1,25 mm
Insertion / extraction cycles	min. 1 000	min. 1 000	min. 1 000

Fire reaction and fire safety

Fire reaction	E_{ca}
	D_{ca} - s2, d1, a1,
	$B2_{ca}$ - s1, d1, a1

Mechanical properties

Number of fibers		4	8	12	24
Loose tube diameter		2,3 mm	2,3 mm	2,3 mm	3,0 mm
Nominal sheath thickness		1,0 mm	1,0 mm	1,0 mm	1,1 mm
Nominal cable diameter (informative value)		5,2 mm	5,2 mm	5,2 mm	5,8 mm
Cable weight netto		33 kg/km	33 kg/km	33 kg/km	41 kg/km
Min. bending radius	installation	104 mm	104 mm	104 mm	116 mm
	operation	52 mm	52 mm	52 mm	58 mm
Max. tensile strength	installation	1 000 N	1 000 N	1 000 N	1 000 N
	operation	300 N	300 N	300 N	300 N
Impact resistance		10 Nm	10 Nm	10 Nm	10 Nm
Crush		1 000 N	1 000 N	1 000 N	1 000 N
Temperature range	installation	-5°C to 50°C			
	operation	-30°C to 70°C			

Note The Plug & Play cable can also be supplied with cables of different construction according to customer requirements.

Fiber properties

Cabled optical fiber ISO/IEC 11801	OM3	OM4	OS2
IEC 60793-2	10-A1a.2	10-A1a.3	50-B1.3
ITU-T P1	—	—	G.652.D
Attenuation @ 850 / 1300 nm (dB/km)	≤ 2,5 / ≤ 0,6	≤ 2,5 / ≤ 0,6	—
Attenuation @ 1310 / 1550 / 1625 nm (dB/km)	—	—	≤ 0,33 / ≤ 0,20 / ≤ 0,24
Bandwidth @ 850 / 1300 nm (MHz.km)	≥ 1500 / ≥ 500	≥ 3500 / ≥ 500	—
Numerical Aperture	0,200 ± 0,015	0,200 ± 0,015	—
Refractive index @ 850 / 1300 nm	1,482 / 1,477	1,482 / 1,477	—
Refractive index @ 1310 / 1550 / 1625 nm	—	—	1,467 / 1,468 / 1,468
MFD (μm) @ 1310 / 1550 nm	—	—	9,0 ± 0,4 / 10,1 ± 0,5
Core diameter (μm)	50 ± 2,5	50 ± 2,5	—
Overall coating diameter (μm)	125 ± 1	125 ± 1	125 ± 0,7