

Product Information – OpDAT patch cords



- > Patch cords with all variants of connector types LC, SC, ST and E2000
- > Fiber types: OM2, OM3, OM4, OM5, OS2. All fibers are bend insensitive
- > available with connectors of quality class **Grade B**: In this case, particularly low insertion loss values are achieved by selecting and processing the connector ferrules.
- > Cable types:
 - Duplex patch cords („figure 8“) with two tight buffers and Aramid as strain relief
 - Duplex connection cable („figure 0“) with two tight buffers in an additional outer jacket and Aramid as strain relief
 - Simplex patch cords (only for SM) with one tight buffer and Aramid as strain relief
- > Duplex patch cords are logically crossed as a standard (A→B, B→A), logically uncrossed patch cords available on request
- > with duplex cables, all connectors except ST connectors are connected with a duplex clip
- > available in lengths between 0.5 to 20 m. The use of duplex connection cables is recommended for lengths of more than 20 m because of the higher mechanical strength.
- > Low smoke, halogen free, flame retardant cable jacket (LSHF-FR)
- > Single mode patch cords are tested by 100 % on insertion loss and return loss at 1310 and 1550 nm. An interferometer measurement is done in addition.
- > Multi mode patch cords are tested by 100 % on insertion loss at 850 and 1300 nm
- > the measurement is followed by a final visual control of the connectors according to IEC 61300-3-35.
- > All patch cords are provided with a serial number and a bar code. This allows traceability and measured values can be made available at any time.

PRODUCT INFORMATION

CABLE TYPE	DUPLEX PATCH CORD	DUPLEX CONNECTION CABLE	SIMPLEX PATCH CORD
OM2			-
OM3			-
OM4			-
OM5			-
OS2			
Cable type	I-V(ZN) H 2	I-V(ZN) HH 2	I-V(ZN) H 1
Outer diameter	2.0 x 4.2 mm	3.0 x 5.0 mm	2.0 mm
Cable weight	8.0 kg/km	18 kg/km	4.5 kg/km
Min. bending radius (installation)	15 mm	15 mm	15 mm
Fire behavior	Flame retardance according to IEC 60332-1-2 Halogene free according to IEC 60754-2 Smoke density according to IEC 61034-2		

FIBER TYPE	MULTIMODE				SINGLEMODE	
	IEC 11801	OM2	OM3	OM4	OM5	OS2
Standard	IEC	60793-2-10 A1a.1	60793-2-10 A1a.2	60793-2-10 A1a.3	60793-2-10 A1a.4	60793-2-50 B.6_a2
	ITU-T				G.651.1	G.657.A2 and G.652.D
Fiber structure					50/125 μm	9/125 μm
Color of cable jacket		orange	aqua	violet	lime green	yellow

PRODUCT INFORMATION

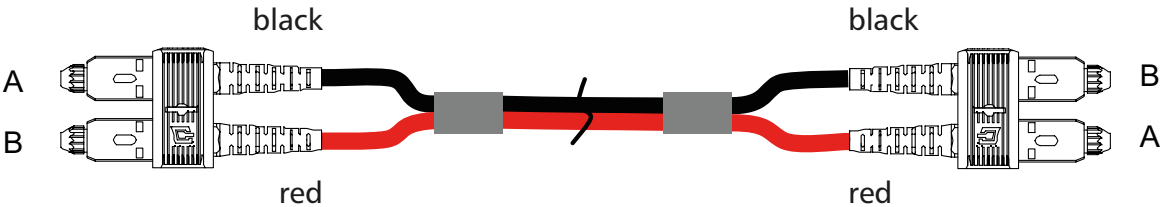
CONNECTORS			SC	LC	E2000	ST
IEC			61754-4	61754-20	61754-15	61754-2
MM	Insertion loss (against master) ²⁾	max.	0.4 dB	0.4 dB	0.4 dB	0.4 dB
		typical	0.2 dB	0.2 dB	0.2 dB	0.2 dB
	Return loss	PC polishing	> 35 dB	> 35 dB	> 35 dB	> 35 dB
SM Standard	Insertion loss (against master) ¹⁾	max.	0.3 dB	0.3 dB	0.3 dB	0.4 dB
		typical	0.15 dB	0.15 dB	0.15 dB	0.2 dB
	Return loss	UPC polishing	> 50 dB	> 50 dB	> 50 dB	> 50 dB
		APC polishing	> 65 dB	> 65 dB	> 65 dB	-
SM GRADEB	Insertion loss (random combination) ¹⁾	max.	0.25 dB	0.25 dB	0.25 dB	-
		typical	0.15 dB	0.15 dB	0.15 dB	-
	Return loss	UPC polishing	> 50 dB	> 50 dB	> 50 dB	> 50 dB
		APC polishing	> 65 dB	> 65 dB	> 65 dB	-

¹⁾ IEC61300-3-4 method C: measured value is valid for both connectors

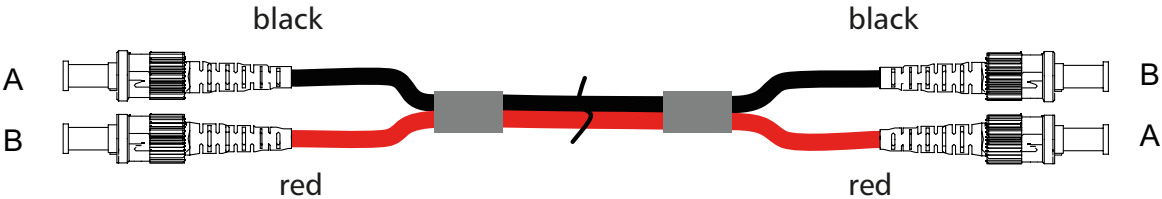
²⁾ IEC61300-3-4 method B: measured value is valid for the single connector

MECHANICAL CHARACTERISTICS			SC	LC	ST	E2000
with fiber type	OM2		•	•	•	-
	OM3, OM4		•	•	•	•
	OM5		•	•	-	•
	OS2		•	•	•	•
Standard	IEC		61754-4	61754-20	61754-2	61754-15
	TIA/EIA		604-3	604-10-A	604-2	604-16
Ceramic ferrule	Diameter		2.5 mm	1.25 mm	2.5 mm	2.5 mm
Connector color	MM	PC polishing	beige	beige	metal	beige
		UPC polishing	blue	blue	metal	blue
	SM	APC polishing	green	green	-	green
Tensile strength	min.					70 N
Mating cycles	min.					1000

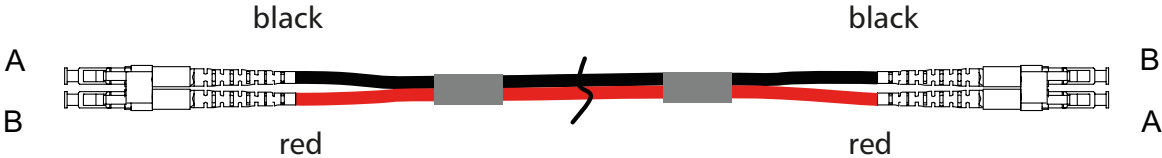
SC



ST

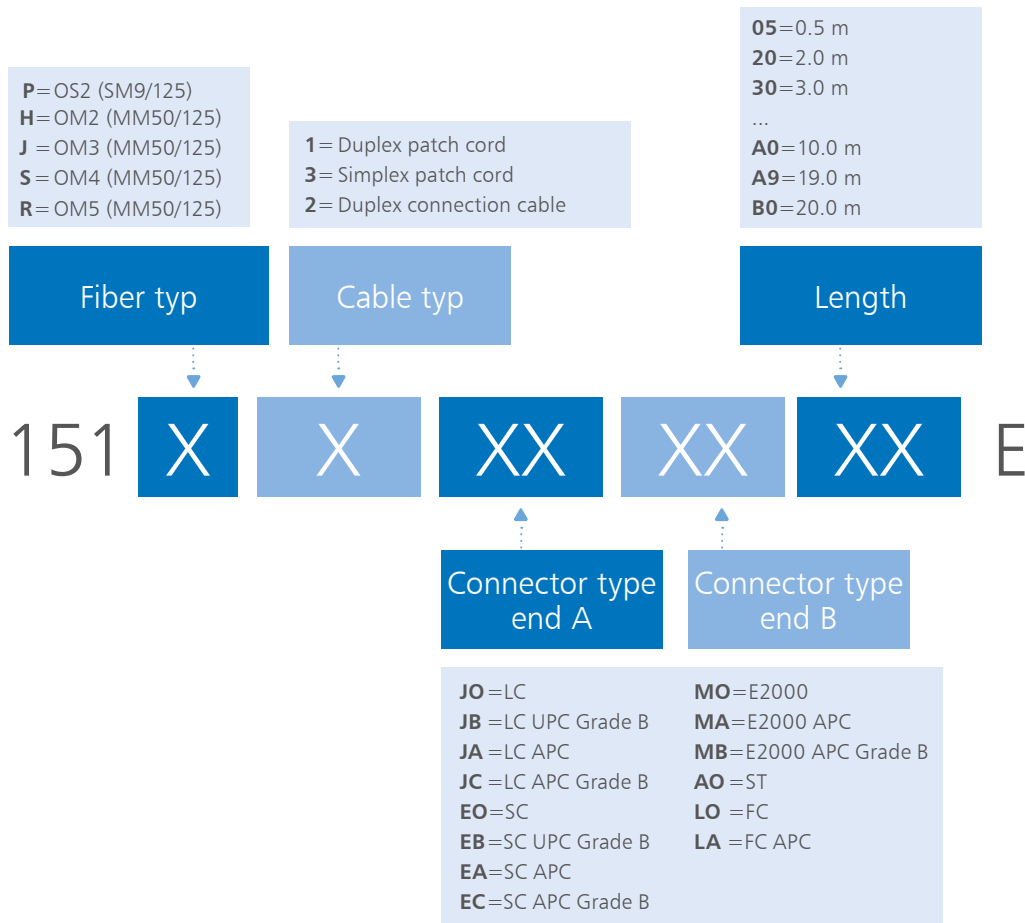


LC



Our standard: logically crossed duplex cords (A → B)

ORDERING INFORMATION



Please note:

These patch cords will be manufactured according to your specifications. They can therefore neither be exchanged nor returned. Technically, it is not possible to produce all possible combinations. Just use our cable configurator available on our web site at www.metz-connect.com/en/cable-configurator. There you can find all variants available.



METZ CONNECT GmbH is member of the following organizations and associations.



METZ CONNECT GmbH

Im Tal 2
78176 Blumberg
Germany

Phone +49 7702 533-0
Fax +49 7702 533-189

info@metz-connect.com
www.metz-connect.com



METZ CONNECT USA Inc.

200 Tornillo Way
Tinton Falls, NJ 07712
USA

Phone +1-732-389-1300
Fax +1-732-389-9066

METZ CONNECT France SAS

28, Rue Schweighaeuser
67000 Strasbourg
France

Phone +33 3886 170 73
Fax +33 3886 194 73

METZ CONNECT Zhongshan Ltd.

Ping Chang Road
Ping Pu Industrial Park
Sanxiang Town
Zhongshan City, 528463
Guangdong Province
China

Phone +86 760 86365 055
Fax +86 760 86365 050

METZ CONNECT Asia Pacific Ltd.

Suite 1803, 18/F
Chinachem Hollywood Centre,
1 Hollywood Road, Central
Hong Kong

Phone +852 26 027 300
Fax +852 27 257 522

