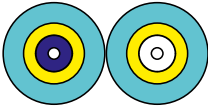
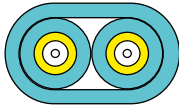
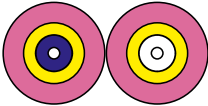
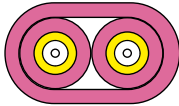
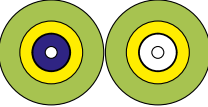
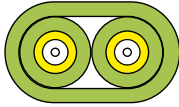
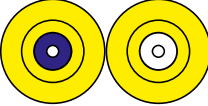
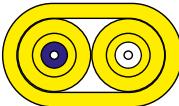
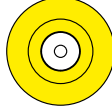


## Product Information – OpDAT patch cords



- > Patch cords with all variants of connector types LC, SC, ST, E2000 and FC
- > Fiber types: 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 and FC 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
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	OM3	OM4	OM5	OS2
Standard	IEC	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		aqua	violet	lime green	yellow

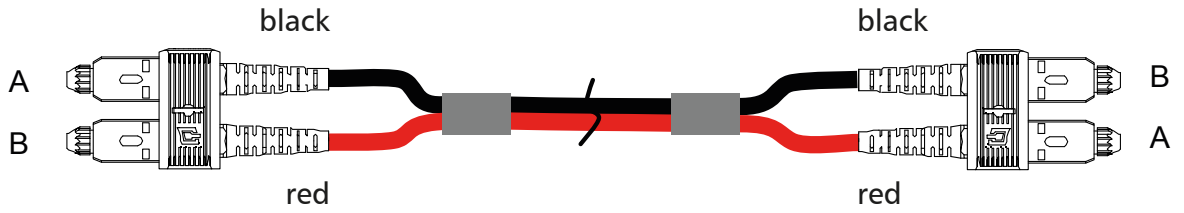
CONNECTORS			SC	LC	E2000	ST	FC
IEC			61754-4	61754-20	61754-15	61754-2	61754-13
MM	Insertion loss (against master) <sup>1)</sup>	max.	0.4 dB	0.4 dB	0.4 dB	0.4 dB	-
		typical	0.2 dB	0.2 dB	0.2 dB	0.2 dB	-
	Return loss	PC polishing	> 35 dB	> 35 dB	> 35 dB	> 35 dB	-
SM Standard	Insertion loss (against master) <sup>2)</sup>	max.	0.3 dB	0.3 dB	0.3 dB	0.4 dB	0.4 dB
		typical	0.15 dB	0.15 dB	0.15 dB	0.2 dB	0.2 dB
	Return loss	UPC polishing	> 50 dB	> 50 dB	> 50 dB	> 50 dB	> 50 dB
		APC polishing	> 65 dB	> 65 dB	> 65 dB	-	> 65 dB
SM <b>GRADE B</b>	Insertion loss (random combination) <sup>2)</sup>	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	-	-

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

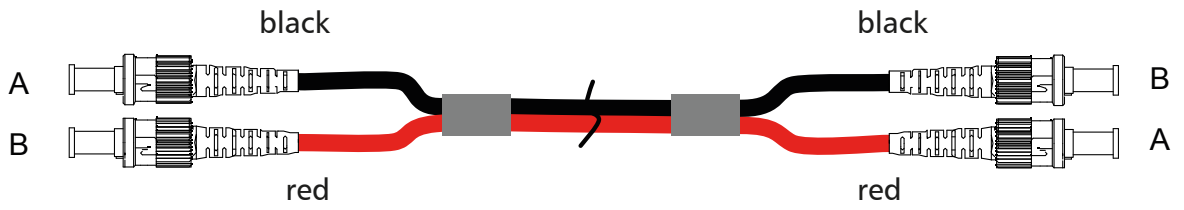
<sup>2)</sup> IEC61300-3-4 method B: measured value is valid for the single connector

MECHANICAL CHARACTERISTICS			SC	LC	ST	E2000	FC
with fiber type	OM3, OM4		•	•	•	OM4	-
	OM5		•	•	-	•	-
	OS2		•	•	•	•	•
Standard	IEC		61754-4	61754-20	61754-2	61754-15	61754-13
	TIA/EIA		604-3	604-10-A	604-2	604-16	604-4-A
Ceramic ferrule	Diameter		2.5 mm	1.25 mm	2.5 mm	2.5 mm	2.5 mm
Connector color	MM	PC polishing	beige	beige	metal	beige	-
		UPC polishing	blue	blue	metal	blue	metal
	SM	APC polishing	green	green	-	green	metal
Tensile strength	min.					70 N	70 N
Mating cycles	min.					1000	1000

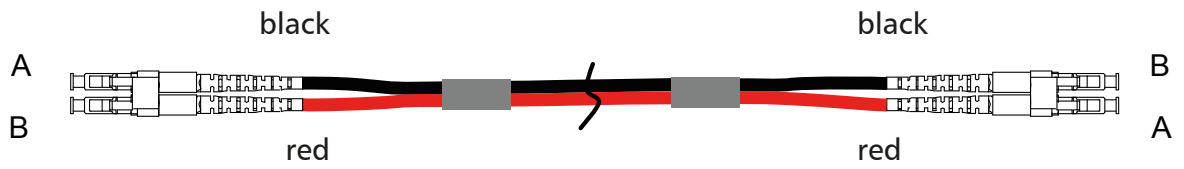
SC



ST

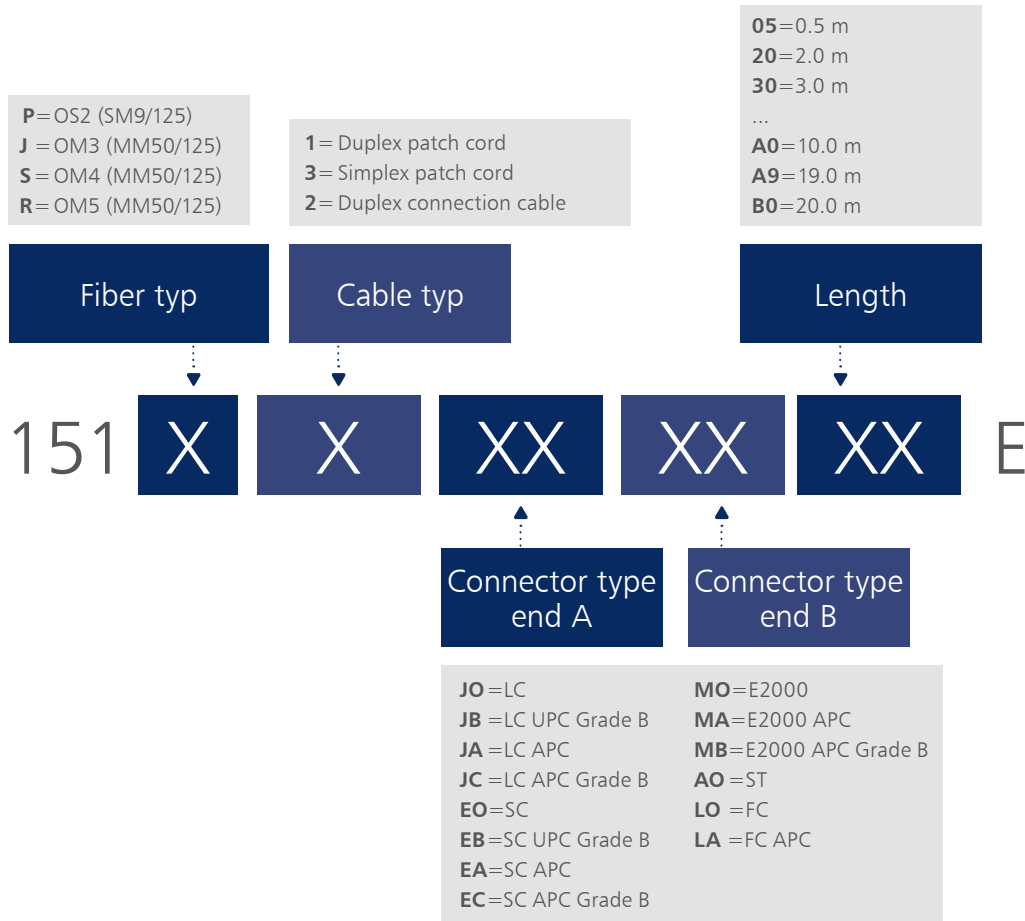


LC



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/configurator](http://www.metz-connect.com/configurator). There you can find all variants available.





We realize ideas

**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 17073  
Fax +33 3886 19473

**METZ CONNECT AUSTRIA GmbH**  
c/o German chamber of commerce  
in Austria

Schwarzenbergplatz 5, Top 3/1  
1030 Vienna  
Austria

Phone +43 1 227 12 64  
Fax +43 1 227 12 66

**METZ CONNECT Zhongshan Ltd.**

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

Phone +86 760 86365055  
Fax +86 760 86365050

**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

