

## PATCHCORD MPO / MTP<sup>®</sup>

Patchords based on round cables (3.0mm) and flat cables (3.1mm x 0.3mm) are ideal for inside building installations, particularly in the Data Centers. They allow better organization of space inside the server cabinets. MPO/MTP<sup>®</sup> connectors are highly flexible and has small size.



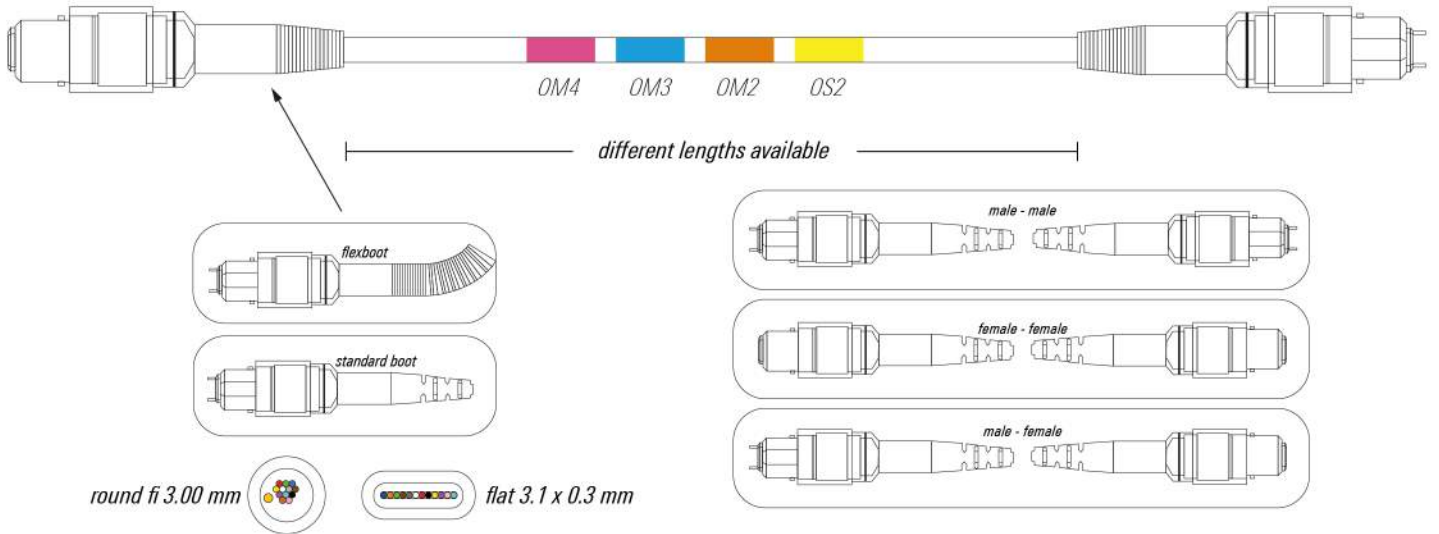
### MPO/MTP<sup>®</sup> PATCHCORDS FEATURES:

- ▶ 12 fibers in a single connector (24 on request)
- ▶ Push-pull connectors eliminates the risk of damaging the ferrule during the connection
- ▶ 3 versions of connector PIN configuration: female-female, male-male, male-female
- ▶ The MPO-MPO Pre-Term links 2 MPO cassettes installed in the Plug&Play patch panels in 2 different cabinets
- ▶ Thin, very flexible fibre-optic patch cable (round cable, Ø 3.0 mm and flat cable, 3.1mm x 0.3mm) with 12 fibres
- ▶ Available fiber OS2, OM2, OM3 and OM4
- ▶ LSOH coating
- ▶ Different lengths and colour available
- ▶ Sticker labelling at both cable ends (optional)
- ▶ Polarisation version A, B, C

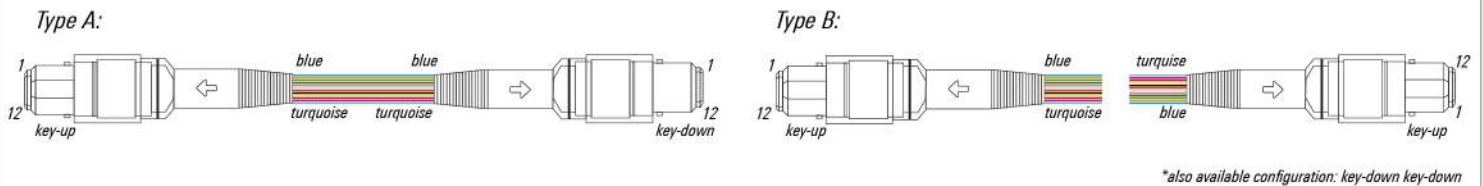
### TECHNICAL PARAMETERS OF MPO/MTP<sup>®</sup> CONNECTORS

Polishing Connector	MPO Female (SM) STANDARD	MPO Female (MM) STANDARD		
Insertion Loss (IL)	< 0.50 dB	< 0.50 dB		
Return Loss (RL)	> 50dB	> 25dB		
Mating Cycles Delta IL	< 0.2 dB after 500 mating cycles			
Fiber Cable Type	G652D or G657A	OM2, OM3 OM4		
Cable Color	OS2	OM2	OM3	OM4
Cable	round cable, Ø 3.0 mm and flat cable, 3.1mm x 0.3mm			
Cable Pull-out Force	100N (flat), 110N (round)			
Operating Temperature	-20°C~+70°C			
Storage Temperature	-40°C~+80°C			

## ORDERING INFORMATION FOR PATCHCORD & PIGTAIL MPO/MTP®



## CONFIGURATION OF MPO-MPO PATCHCORDS - STANDARD OF POLARIZATION MODES



## EXAMPLE ORDERING CODE

PTCH-12-7-P-MPOMPO-10-FF-A-P	patchcord single mode 12 fibers on flat cable 3,1 x 0,3 mm with G657.A1 9/125um fiber, MPO on MPO, 10 meters, female – female with configuration type A, Premium
PTCH-12-3-O-MPOMPO-15-FM-B-N	patchcord multi mode 12 fibers on round cable 3,0mm with OM3 50/125um fiber , MPO on MPO, 15 meters, female – male with configuration type B, Standard
PTCH-12-4-R-MPOMPO-01-MM-C-T	patchcord multi mode 12 fibers on ribbon tape with OM4 50/125um fiber, MPO on MPO, 1 meter, male – male with configuration type C, Telecom
PTCH-12-4-P-MPOMPO-11-MM-A-P	patchcord multi mode 12 fibers on flat cable 3,1 x 0,3 mm with OM4 50/125um fibers, MPO on MPO, 11 meters, male – male with configuration type A, Premium

## ORDERING INFORMATION

Type	Fibers quantity	Fiber type	Type of cable	CON	Lenght	Type of connector	Polarity configuration	Producer/Premium/Standard <sup>(1)</sup>	Boots
PTCH – patchcord PGT – pigtail	12 – fibers quantity in MPO connector 24 – fibers quantity in MPO connector	9 – SM G652D 7 – SM G657.A1 6 – SM G657.A2 8 – SM G657.A2/B2 5 – SM G.655 1 – MM OM1 (62,5) 2 – MM OM2 (50) 3 – MM OM3 (50) 4 – MM OM4 (50)	P – flat cable dimensions: 3,1 x 03mm O – round cable diameter: 3,0mm	MPOMPO – both MPO connectors	01 – 1 meter 02 – 2 meters 02,5 – 2,5 meters - - - different lengths available	FF – female – female MM – male – male FM – female – male	A – patchcord with polarity type A B – patchcord with polarity type B C – patchcord with polarity type C	N – standard made by Cellco P – premium made by Cellco T – Telcom produced by supplier.  (1) values declared by QLT	Q – Standard boot X – Flexboot S – Shortboot

## FANOUT MPO/MTP<sup>®</sup> - LC\*

MPO/MTP<sup>®</sup> Fanout harness enables cross-connecting MPO with standard connectors. One side of multifiber cable terminated with MPO/MTP<sup>®</sup> connector. Second side of multifiber cable available with any type connector required: SC, LC, E2000, FC, ST, LC Duplex Uniboot. (APC or PC available). Application of MPO fanouts enables better organization of usage space inside teleinformatic cabinets without changing current layout of available system.

### MPO/MTP<sup>®</sup> FANOUT FEATURES:

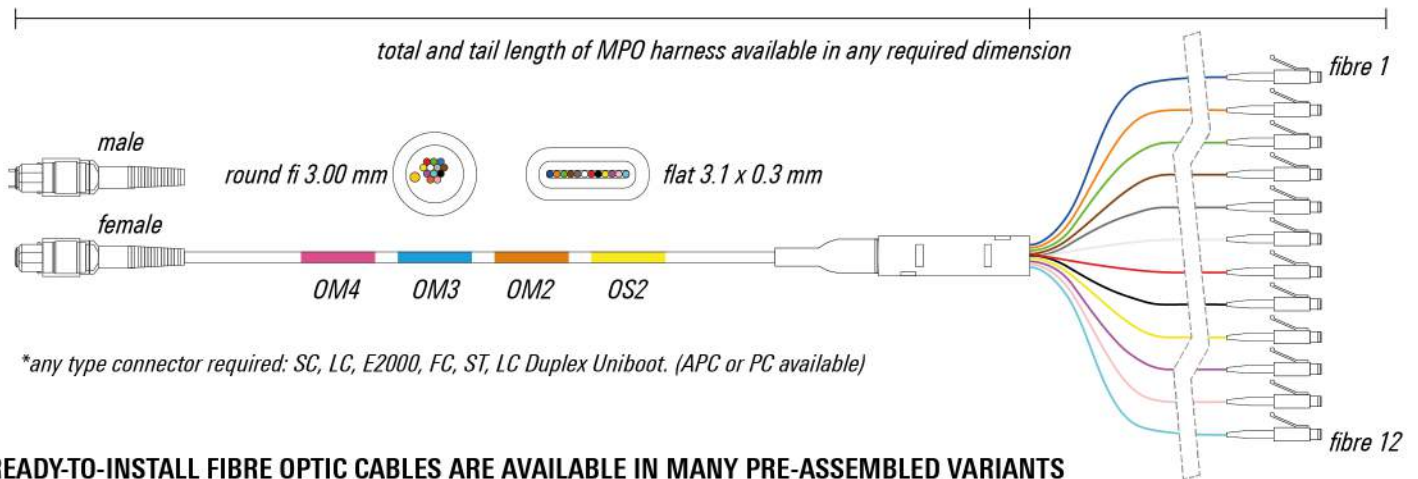
- ▶ 12 fibers in a single MPO/MTP<sup>®</sup> connector (24 on request).
- ▶ Thin, very flexible fibre-optic patch cable (round cable, Ø 3.0 mm and flat cable, 3.1mm x 0.3mm) with 12 fibres.
- ▶ Available fiber OS2, OM2, OM3 and OM4
- ▶ LSOH coating
- ▶ Different lengths ( length of single fiber harness, any overall length) & colour of single fibers available (OFS, DIN, Standard (telcordia) any other on request.
- ▶ Different boot options: flex, short
- ▶ Standard connectors finished with equal or cascade length
- ▶ For duplex connectors clips or uniboot available with capability of male and female connectors
- ▶ Sticker labelling at both cable ends (optional)
- ▶ Compact fanout harness housing.
- ▶ Pigtails in harness terminated (Ø 900 um or Ø 2.0 mm) with any type connector required: SC, LC, E2000, FC, ST, LC Duplex Uniboot. (APC or PC available)
- ▶ Project-specific assemblies are available on requestTVTV

### TECHNICAL PARAMETERS OF MPO/MTP<sup>®</sup> CONNECTORS

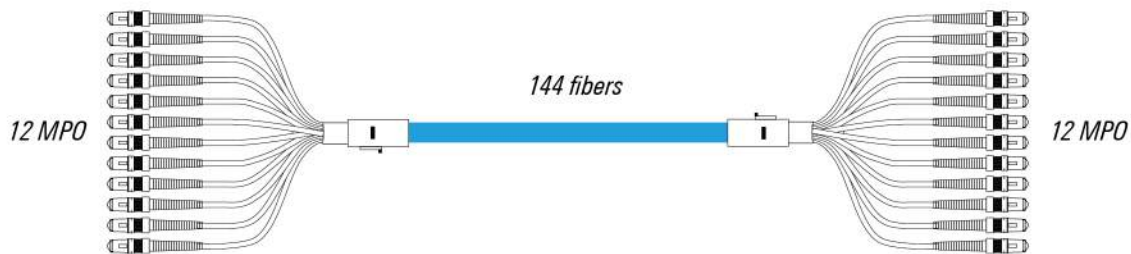
Polishing Connector	MPO Female (SM) STANDARD	MPO Female (MM) STANDARD		
Insertion Loss (IL)	< 0.50 dB	< 0.50 dB		
Return Loss (RL)	> 50dB	> 35dB		
Mating Cycles Delta IL	< 0.2 dB after 500 mating cycles			
Fiber Cable Type	G652D or G657A	OM2, OM3 OM4		
Cable Color	OS2	OM2	OM3	OM4
Cable	round cable, Ø 3.0 mm and flat cable, 3.1mm x 0.3mm			
Standard connectors on pigtails side	LC, SC, E2000, FC, ST, LCD Uniboot			
Cable Pull-out Force	100N (flat), 110N (round)			
Operating Temperature	-20°C~+70°C			
Storage Temperature	-40°C~+80°C			

\*any type connector required: SC, LC, E2000, FC, ST, LC Duplex Uniboot. (APC or PC available)

## MPO/MTP® FANOUTS – LCD\* 12 FIBRES LENGTH CONFIGURATION



READY-TO-INSTALL FIBRE OPTIC CABLES ARE AVAILABLE IN MANY PRE-ASSEMBLED VARIANTS SUCH AS 12MPO - 12MPO - 144 FIBRES



## EXAMPLE ORDERING CODE

FM-12-7-P-6SCA6LCA-0-01-F-12S-P-X-K-C-E	Fanout harness single mode 12 fibers on flat cable 3,1 x 0,3 mm with G657.A1 9/125um fiber, MPO on 6 SC APC and 6 LC APC, pigtails on 2.0mm cables, 1 meter, female, 12 colours acc. to Standard colour code, Premium, with Flexboots, connectors in cascade, clips on LC connectors, grey colour boots.
FM-12-3-O-LC-9-05-M-12D-N-Q-Q-C-Q	Fanout harness multi mode 12 fibers on round cable 3,0mm with OM3 50/125um fiber, MPO on 12 LC PC, pigtails on 900um tube, 5 meters, male, 12 colours acc. to DIN colour code, Neptun, clips on LC connectors.
FM-12-4-O-LC-0-02-M-12O-T-Q-Q-Q-Q	Fanout multi mode 12 fibers on round cable 3,0mm with OM4 50/125um fiber, MPO on 12 LC PC, pigtails on 2,0mm cables, 2 meters, male, 12 colours acc. to OFS colour code, Telecom
FM-12-7-P-SCA-9-11-F-12S-N-Q-Q-Q-Q	Fanout single mode 12 fibers on flat cable 3,1 x 0,3 mm with G.657.A1 9/125um fiber, MPO on 12 SC APC, pigtails on 900um tubes, 11 meters, female, 12 colours acc to. Standard colour code, Neptun.

## ORDERING INFORMATION

Type	Fiber type	Type of cable	CON <sup>(2)</sup>	Diameter of pigtails	Type of connector	Producer/Premium/Standard <sup>(1)</sup>	Boots	Pigtails colour code	Cascade:	Boot colours
FM – MPO Fanout harness with standard connectors	9 – SM G652D 7 – SM G657.A1 6 – SM G657.A2 8 – SM G657.A2/B2 5 – SM G.655 1 – MM OM1 (62,5) 2 – MM OM2 (50) 3 – MM OM3 (50) 4 – MM OM4 (50)	P – flat cable dimensions: 3,1 x 03mm O – round cable diameter: 3,0mm R – Ribbon	SCA – for SC APC connectors SC – for SC PC connectors LCA – for LC APC connectors LC – for LC PC connectors ST – for ST PC connectors FC – for FC PC connectors FCA – for FC APC connectors E2 – for E2000 PC connectors E2A – for E2000 APC connectors	0 – 2.0mm cable 9 – 900um tube 4 – 2.4 mm cable 8 – 2.8 mm cable 3 – 3.0 mm cable 6 – 1.6 mm cable	F – female M – male	N – standard made by Cellco P – premium made by Cellco T – Telcom produced by supplier.	Q – Standard boot X – Flexboot S – Shortboot U – Uniboot <sup>(®)</sup> (3) only LC available	W – all white Y – all yellow R – all red B – all black O – all brown P – all pink L – all blue V – all violet G – all green E – all grey A – all qua N – all orange 12O – 12 colours OFS colour code 6S – first 6 colours of Standard color code 10D – first 10 colours DIN colour code	K – pigtails in cascade Q – equal length	Q – Standard boots W – white Y – yellow R – red B – black O – brown P – pink L – blue V – violet G – green E – grey A – aqua N – orange
<b>Fibers quantity</b>					<b>Total length</b>	(1) values declared by QLT				
12 – fibers quantity in MPO connector 24 – fibers quantity in MPO connector			(2) other connectors on a client's request		01 – 1 meter 02 – 2 meters 02,5 – 2,5 meters - - - different lengths available				<b>Clips</b> C – with clips - – without clips	