OCM6

Optical component module - wavelength division multiplexers

Wavelength division multiplexing is a technique that combines (or multiplexes) multiple signals with different wavelengths in one common fiber. The same components can also be used to separate the wavelengths (demultiplexing) at the remote location.

These WDM components can be integrated in TE Connectivity's OCM6 range of optical component housings. This allows easy integration of coarse, dense and wide WDM components in the MDU environment.

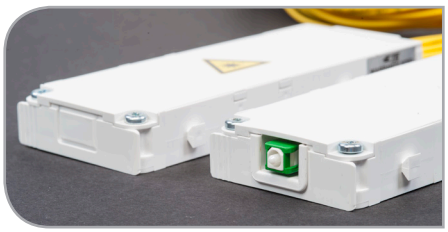
Advantages

- Reliable performance
- Excellent mechanical protection
- Fast and simple installation
- In-line configuration integrates connector for common port in the housing

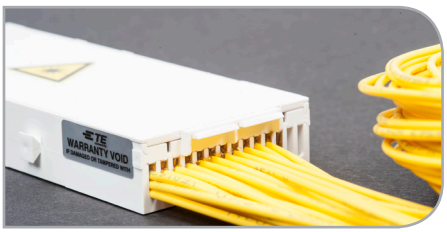
Advantages

- WDM upgrades in access and metro networks
- Increase capacity between the central office and the head-end in HFC networks

All TE WDM components are based on TFF (thin-film-filter) technology.

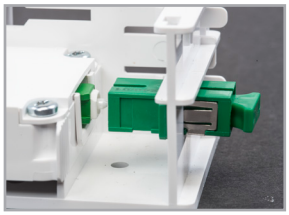


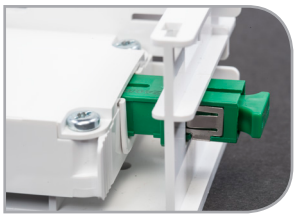
Butt



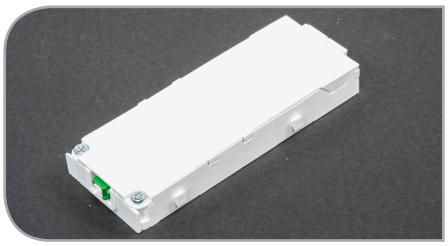
In-Line

Cable Retention

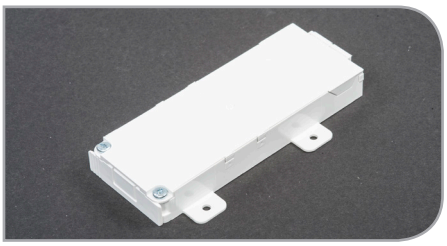




Easy snap-on



Snap on sides



Fixation holes

Ordering information for CWDM

OCM 6 - C X X XX X XX - XXX X X

Type

M Multiplexing
D Demultiplexing
X Double demux (for 2 fiber system)*
Y Double mux (for 2 fiber system)*

* butt-version only

Number of channels

1 , 2, 4, 8

Starting wavelength

27 1271 nm
29 1291 nm
⋮
61 1611 nm

Channel spacing/sequence

1 20 nm e.g. 1271, 1291, 1311
2 40 nm e.g. 1271, 1311, 1351
3 20 nm + 1310 port
4 20 nm + upgrade port

Fixation

1 Snap on side
2 Fixation holes

Orientation

B Butt
I In-line with connector

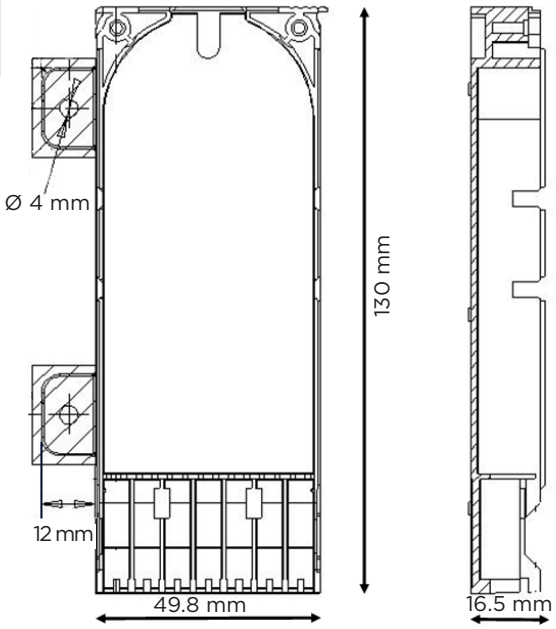
Pigtail length

61C 61 cm for BUDI-S
72C 72 cm for BUDI-M

Output connector type

	Connector type	
Grade C**	SC	LC
UPC	**S1**	**L1**
APC 8°	**S2**	**L2**
APC 9°	**S3**	

** according to IEC 61755-1
UPC = Ultra polished physical contact
APC = Angled polished physical contact



In the in-line version, the connector for the common port is always SC. While an LC connector can be specified on the output, the connector for the common port will be either **SL1** (for SC/UPC) or **SL2** (for SC/APC). When ordering the butt version, if no connector is required for the common port, include "N" in the connector type (**NS1, NS2, NS3, NL1, NL2**). If the input cable is not connectorized, the cable length will be 2 meters.

Product can be installed in
MDU BUDI product range

Remarks:
* Cable is 1.8 mm LSZH with semi-tight buffering
* OCM6 is not compatible with the compact CWDM module

Performance specifications
Please refer to RUD 5336 for CWDM.

For more technical options and order quantity information, please consult the product ordering guides or your local sales representative.

Ordering information for DWDM

OCM 6 - D X X X XX X XX - XXX X X

Type

M	Multiplexing
D	Demultiplexing
X	Double demux (for 2 fiber system)*
Y	Double mux (for 2 fiber system)*

* butt-version only

Number of channels

1, 2, 4, 8

Channel spacing

GHZ
1 100

Starting wavelength (ITU grid)

15 1565,50 nm
16 1564,69 nm
⋮
60 1529,55 nm

Channel sequence

0	One channel only
1	0,8 nm e.g. 33, 34, 35
2	1,6 nm eg 33, 35, 37
3	0,8 nm + 1310 nm
4	0,8 nm + upgrade port
5	0,8 nm + upgrade port + 1310 nm

Fixation

1	Snap on side
2	Fixation holes

Orientation

B	Butt
I	In-line with connector

Pigtail length

61C	61 cm for BUDI-S
72C	72 cm for BUDI-M

Output connector type

	Connector type	
Grade C**	SC	LC
UPC	**S1**	**L1**
APC 8°	**S2**	**L2**
APC 9°	**S3**	

** according to IEC 61755-1
UPC = Ultra polished physical contact
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In the in-line version, the connector for the common port is always SC. While an LC connector can be specified on the output, the connector for the common port will be either **SL1** (for SC/UPC) or **SL2** (for SC/APC). When ordering the butt version, if no connector is required for the common port, include "N" in the connector type (**NS1, NS2, NS3, NL1, NL2**). If the input cable is not connectorized, the cable length will be 2 meters.

Example:

OCM6-DM81303S2-61CI1 OCM6 housing (with in-line connector and snap on side) containing 8 DWDM channels starting at ITU channel 30. Standard channel spacing with an additional 1310 nm port included. Pigtails are 61 cm long (suitable for Budi-S).

Product can be installed in
MDU BUDI product range

Remarks
* Cable is 1.8 mm LSZH with semi-tight buffering

Performance specifications
Please refer to RUD 5400 for DWDM.

For more technical options and order quantity information, please consult the product ordering guides or your local sales representative.

Ordering information for WWDM

OCM 6 - T X XXXX XX - XXX X X

Number of filters

Maximum 8

Type of WWDM

1200	1310 / 1550+1625
1201	1310+1550 / 1625
1202	1310+1490 / 1550 (PON)
1204	1550 / 1625 (OTDR)

Fixation

1	Snap on side
2	Fixation holes

Orientation

B	Butt

Pigtail length

61C	61 cm for BUDI-S
72C	72 cm for BUDI-M

Output connector type

	Connector type	
Grade C*	SC	LC
UPC	**S1**	**L1**
APC 8°	**S2**	**L2**
APC 9°	**S3**	

* according to IEC 61755-1
UPC = Ultra polished physical contact
APC = Angled polished physical contact

In the in-line version, the connector for the common port is always SC. While an LC connector can be specified on the output, the connector for the common port will be either **SL1** (for SC/UPC) or **SL2** (for SC/APC). When ordering the butt version, if no connector is required for the common port, include "N" in the connector type (**NS1, NS2, NS3, NL1, NL2**). If the input cable is not connectorized, the cable length will be 2 meters.

Product can be installed in
MDU BUDI product range

Remarks
* Cable is 1.8 mm LSZH with semi-tight buffering

Performance specifications
Please refer to RUD PROP 5456 (type 1200/1201/1202) and 5431 (type 1204).

For more technical options and order quantity information, please consult the product ordering guides or your local sales representative.

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