

# Fibre Optics

Matchmaster provide an extensive range of IP and fibre solutions for RF overlay and distribution. Simple IP solution using SAP protocol without the need for middleware through to advanced hospitality solutions. Simple fibre solutions for CATV and L-band in 1310nm and 1550nm wavelengths including DWDM solutions for 5 wire over single fibre distribution.



# Fibre Optics

## Optical Dense Wavelength Division Multiplexer 20MM-DWDM-1005-1U

### Features and Benefits

- » Used with high stability transmitters as part of the SMATV optical distribution network
- » DWDM combiner now separated from 20MM-LT4X2050 kit for easy maintenance
- » Features 5 inputs and 1 optical output
- » Using a 1RU 19" rack mount chassis
- » SC/APC compliant connector for television over fibre



## 27dB EDFA In Built WDM 8 Outputs 20MM-EDFA-WDM-27

### Features and Benefits

- » Output power offered in this unit is +27dBm distributed over 8 SCAPC outputs
- » Also available with SNMP protocol using RJ45 connector
- » Outputs split to x 8 for design flexibility
- » Using a 1RU 19" rack mount chassis
- » Using the ITU 88CH standard
- » Low input power with -20 to +5dBm



## 1550nm Direct Modulated AGC Optical Transmitter 20MM-HT152DA-10-SNMP

### Features and Benefits

- » CATV transmitter with frequency of 45 to 862 MHz, allowing use in triple play FTTX solutions
- » ITU-TG.692 standard wavelength
- » Output power is 10dBm allowing for system losses of distribution networks
- » Direct modulation transmitter 10dBm allowing long distances and suitable for use with an EDFA for Triple Play solutions



## 1x CATV 4x SAT Laser Receiver 20MM-LR4X2050

### Features and Benefits

- » Excellent solution for Foxtel distribution networks where large capacity is required and distribution network is more than 150 metres between nodes
- » Power requirements using simple 12VDC power connector
- » Offers suitable RF output interface to work with Terra 5 wire SMATV solutions
- » F-connector outputs offering 4 x SMATV and 1 x CATV/Terrestrial signals
- » Optical input range -5dBm to 8dBm (total average power -2dBm - +5dBm)



## 5 Wire Fibre TX Kit With External DWDM 20MM-LT4X2050-KIT

### Features and Benefits

- » 47-862 & 950-2500MHz RF operating bandwidth
- » Suitable for CATV & SAT-IF application
- » Optical transmitter CATV adopts high-linearity IF drive amplifying circuit with AGC function
- » SNMP support remote management and control
- » Laser chip using Broadband LiNbO3 external modulation, narrow-linewidth CW DFB laser
- » SCAPC output connectors are used for television optimisation



### 20MM-LR4X2050 Specifications

Operating Wavelength	1550nm-1559nm	
Fibre	Single Mode 9/125µm	
Optical Connector	SC/APC	
Required Received Power (Total Average)	-5dBm - +8dBm Single Wavelength	
Output Parameters	CATV	Satellite
Output Impedance	75 Ohm	
Output Return Loss	>16dB	>12dB
Transmission Bandwidth	45-862MHz	950-2400MHz
Output Level	Determined by Rx Power	
Flatness Within Band	±1.5dB	
Operating Voltage	95-260 VAC	
RF Connectors	F-Type	
Operating Temperature	-5 - +50°C	

## Gigabit Passive Optical Network Unit

### 20MM-PM520-TV-VO-W-S-S



#### Features and Benefits

- » Service access over IEEE802.3ah compliant PON, shared with up to 64 customers with CATV overlay
- » Four auto-negotiating Gigabit Ethernet subscriber ports for 10/100/1000 Mbps, half-duplex/full-duplex, auto-crossover operation (MDI/MDIX)
- » High-performance optical CATV receiver delivering full-spectrum television from 45 to 1000MHz
- » SIP VoIP functionality with two physical POTS ports
- » 2x2 802.11b/g/n WiFi capability

## AIMA Transmitters

#### Features and Benefits

- » Plug-and-play with the AIM 3000 platform
- » High-quality 1310 nm, isolated MQW DFB laser with advanced RF driver circuitry
- » RF amplifier gain blocks with advanced GaAs technology for better performance
- » Supports CENELEC and NTSC standards up to 110 channels (both analog and digital)
- » Frequency response of 45 MHz to 1000 MHz for both broadcast and narrowcast applications
- » Can be locally managed through an Ethernet port



Product Code	Type
20MM-AIMA-FT3S-08-S	8dBm
20MM-AIMA-FT3S-09-S	9dBm
20MM-AIMA-FT3S-10-S	10dBm
20MM-AIMA-FT3S-11-S	11dBm
20MM-AIMA-FT3S-12-S	12dBm

## SC/ST/FC One Click

### 20MM-T-85001MZ

#### Features and Benefits

- » Easy one click cleaner a must for anytime a connector is removed or fitted
- » Suitable for ST, SC and FC connectors and adaptors
- » One click action, simple to use
- » Cleaning action with a combination of rotating head and tape wipe actions
- » Fits in your shirt pocket or tool kit



## Attenuators

#### Features and Benefits

- » Attenuator SCA single mode male to female
- » Optical attenuators offer complete flexibility to correct power levels in your network
- » Complete with dust caps for interface protection
- » Metal assembly



Product Code	Type
20MM-ATS-SCA-5	5dB
20MM-ATS-SCA-10	10dB
20MM-ATS-SCA-15	15dB

## Break Out Trays

#### Features and Benefits

- » 1RU 19" rack mounts allows for any combination of ST, SC and LC faceplates to be fitted
- » Suitable for a combination of fusion splicing, direct termination and pre-terminated cables
- » Sliding Fibre Tray and allows for any combination of ST, SC and LC faceplates



Product Code	Product Description
20MM-FT1RU-F3	Fibre Tray 1RU - Fixed 3 Slot
20MM-FT1RU-S	Fibre Tray 1RU - Sliding 3 Slot

# Fibre Optics

## Laser Transmitter L-Band Single Wavelength

### Features and Benefits

- » Suitable for CATV & SAT-IF application
- » Optical transmitter SAT-IF adopts high-linearity IF drive amplifying circuit with AGC function
- » SNMP support remote management and control
- » Laser chip using Broadband LiNbO3 external modulation, narrow-linewidth CW DFB laser
- » SCAPC connectors used for television optimisation



Product Code	Type
<a href="#">20MM-LT1X2050-1550.92</a>	1550nm
<a href="#">20MM-LT1X2050-1552.52</a>	1552nm
<a href="#">20MM-LT1X2050-1555.75</a>	1555nm
<a href="#">20MM-LT1X2050-1557.36</a>	1557nm

## Laser Transmitters 1310nm

### Features and Benefits

- » Includes pre-distortion adjustment circuit and laser APC
- » Provides LCD screen on the front panel can display operating status and the fault information to the user
- » Controlled by microprocessor
- » Adopts high linearity DFB laser



Product Code	Type
<a href="#">20MM-LT1310-02-SC</a>	2mW
<a href="#">20MM-LT1310-04-0-SC-0</a>	4mW
<a href="#">20MM-LT1310-10-SC</a>	10mW

## Laser Transmitters 1550nm

### Features and Benefits

- » Adopts high linearity DFB laser
- » Includes pre-distortion adjustment circuit and laser APC
- » Provides LCD screen on the front panel can display operating status and the fault information to the user



Product Code	Type
<a href="#">20MM-LT1550-010-1-33-SNMP</a>	10mW with SNMP Control Function
<a href="#">20MM-LT1550-10-33-F1-SC-SNMP</a>	10mW SC Out with SNMP Control Function
<a href="#">20MM-LT1550-20-33-SC-0</a>	20mW SC Out

## LC Angled To LC Angled Polished OS2 Patch Cords

### Features and Benefits

- » Applications include CATV, Data Network, Telecommunications, Optical switch networks, industrial and medical
- » 3mm buffer offers industry standard protection
- » Lifetime replacement warranty
- » Low insertion loss less than 0.2dB
- » Return loss for APC >65dB
- » Test reports provided with each patch cord



Product Code	Length
<a href="#">20MM-PS2DLCA-1</a>	1m
<a href="#">20MM-PS2DLCA-2</a>	2m
<a href="#">20MM-PS2DLCA-3</a>	3m
<a href="#">20MM-PS2DLCA-5</a>	5m
<a href="#">20MM-PS2DLCA-10</a>	10m
<a href="#">20MM-PS2DLCA-15</a>	15m
<a href="#">20MM-PS2DLCA-20</a>	20m
<a href="#">20MM-PS2DLCA-25</a>	25m
<a href="#">20MM-PS2DLCA-30</a>	30m

# Fibre Optics

## LC To LC OM3 Patch Cords

### Features and Benefits

- » Applications include Data Network, Telecommunications, Optical switch networks, industrial and medical
- » 3mm buffer offers industry standard protection
- » Lifetime replacement warranty
- » Low insertion loss less than 0.2dB
- » Return loss for APC >65dB
- » Test reports provided with each patch cord

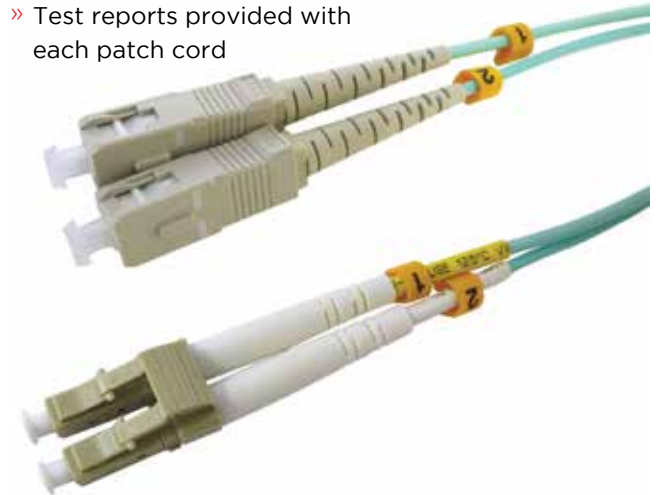


Product Code	Length
20MM-PM3DLC-1	1m
20MM-PM3DLC-2	2m
20MM-PM3DLC-3	3m
20MM-PM3DLC-5	5m
20MM-PM3DLC-10	10m
20MM-PM3DLC-15	15m
20MM-PM3DLC-20	20m
20MM-PM3DLC-25	25m
20MM-PM3DLC-30	30m

## LC To SC OM3 Patch Cords

### Features and Benefits

- » Applications include Data Network, Telecommunications, Optical switch networks, industrial and medical
- » 3mm buffer offers industry standard protection
- » Lifetime replacement warranty
- » Low insertion loss less than 0.2dB
- » Return loss for APC >65dB
- » Test reports provided with each patch cord



Product Code	Length
20MM-PM3DLCSC-1	1m
20MM-PM3DLCSC-2	2m
20MM-PM3DLCSC-3	3m
20MM-PM3DLCSC-5	5m
20MM-PM3DLCSC-10	10m
20MM-PM3DLCSC-15	15m
20MM-PM3DLCSC-20	20m
20MM-PM3DLCSC-25	25m
20MM-PM3DLCSC-30	30m

## LC To LC OS2 Patch Cords

### Features and Benefits

- » Applications include Data Network, Telecommunications, Optical switch networks, industrial and medical
- » 3mm buffer offers industry standard protection
- » Lifetime replacement warranty
- » Low insertion loss less than 0.2dB
- » Return loss for APC >65dB
- » Test reports provided with each patch cord



Product Code	Length
20MM-PS2DLC-1	1m
20MM-PS2DLC-2	2m
20MM-PS2DLC-3	3m
20MM-PS2DLC-5	5m
20MM-PS2DLC-10	10m
20MM-PS2DLC-15	15m
20MM-PS2DLC-20	20m
20MM-PS2DLC-25	25m
20MM-PS2DLC-30	30m

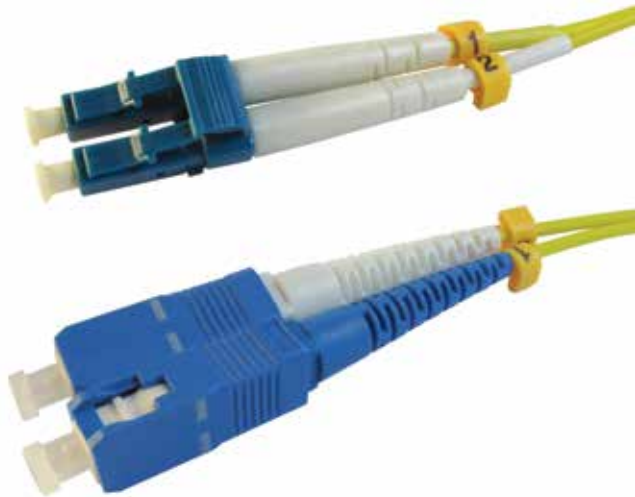


# Fibre Optics

## LC To SC OS2 Patch Cords

### Features and Benefits

- » Applications include Data Network, Telecommunications, Optical switch networks, industrial and medical
- » 3mm buffer offers industry standard protection
- » Lifetime replacement warranty
- » Low insertion loss less than 0.2dB
- » Return loss for APC >65dB
- » Test reports provided with each patch cord

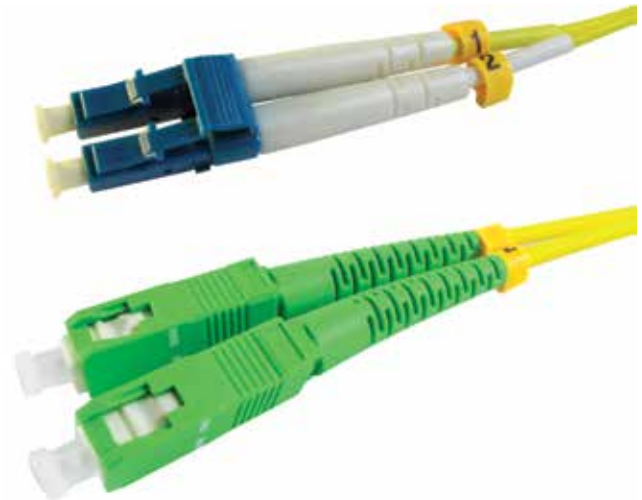


Product Code	Length
20MM-PS2DLCSC-1	1m
20MM-PS2DLCSC-2	2m
20MM-PS2DLCSC-3	3m
20MM-PS2DLCSC-5	5m
20MM-PS2DLCSC-10	10m
20MM-PS2DLCSC-15	15m
20MM-PS2DLCSC-20	20m
20MM-PS2DLCSC-25	25m
20MM-PS2DLCSC-30	30m

## LC To SC Angled OS2 Patch Cords

### Features and Benefits

- » Applications include CATV, Data Network, Telecommunications, Optical switch networks, industrial and medical
- » 3mm buffer offers industry standard protection
- » Lifetime replacement warranty
- » Low insertion loss less than 0.2dB
- » Return loss for APC >65dB
- » Test reports provided with each patch cord



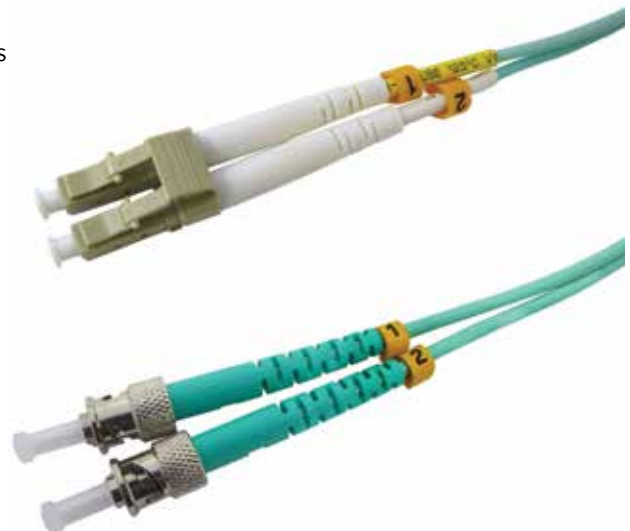
Product Code	Length
20MM-PS2DLCSCA-1	1m
20MM-PS2DLCSCA-2	2m
20MM-PS2DLCSCA-3	3m
20MM-PS2DLCSCA-5	5m
20MM-PS2DLCSCA-10	10m
20MM-PS2DLCSCA-15	15m
20MM-PS2DLCSCA-20	20m

## LC To ST OM3 Patch Cords

### Features and Benefits

- » Applications include Data Network, Telecommunications Optical switch networks, industrial and medical
- » 3mm buffer offers industry standard protection
- » Lifetime replacement warranty, test reports provided
- » Low insertion loss less than 0.2dB
- » Return loss for APC >65dB

Product Code	Length
20MM-PM3DLCST-1	1m
20MM-PM3DLCST-2	2m
20MM-PM3DLCST-3	3m
20MM-PM3DLCST-5	5m
20MM-PM3DLCST-10	10m
20MM-PM3DLCST-15	15m
20MM-PM3DLCST-20	20m

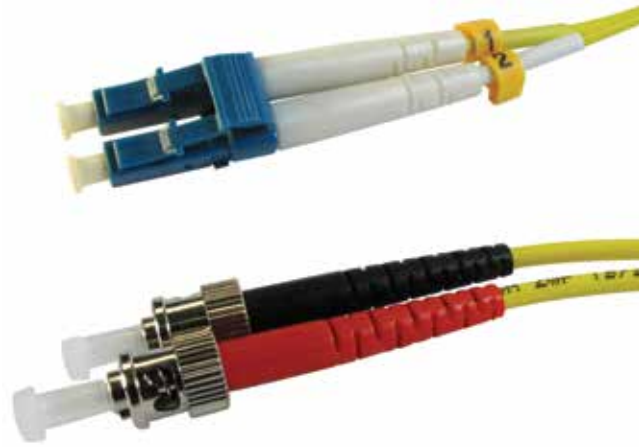


# Fibre Optics

## LC To ST OS2 Patch Cords

### Features and Benefits

- » Applications include CATV, Data Network, Telecommunications, industrial and medical
- » 3mm buffer offers industry standard protection
- » Low insertion loss less than 0.2dB
- » Return loss for APC >65dB
- » Test reports provided with each patch cord



Product Code	Length
20MM-PS2DLCST-1	1m
20MM-PS2DLCST-2	2m
20MM-PS2DLCST-3	3m
20MM-PS2DLCST-5	5m
20MM-PS2DLCST-10	10m
20MM-PS2DLCST-15	15m
20MM-PS2DLCST-20	20m

## OM3 Pigtails

### Features and Benefits

- » Rainbow international standard coloured packs
- » Configurations can be made to order
- » Crush and kink resistant
- » Low smoke zero halogen

Product Code	Type
20MM-PTM3SC-2	SC 2m
20MM-PTM3SC-2-6	SC 2m 6 Colour
20MM-PTM3SC-2-12	SC 2m 12 Colour
20MM-PTM3ST-2	ST 2m
20MM-PTM3ST-2-6	ST 2m 6 Colour
20MM-PTM3ST-2-12	ST 2m 12 Colour
20MM-PTM3LC-2	LC 2m
20MM-PTM3LC-2-6	LC 2m 6 Colour
20MM-PTM3LC-2-12	LC 2m 12 Colour

## Media Converters

### Features and Benefits

- » Data Rate (Mbps): 10/100M with Auto-Negotiation (and 1000M for 20MM-SMCGSC-80)
- » Mode: UTP Half or Full Duplex
- » Optical wavelength: 1310nm
- » Power Supply: External AC-DC Power Adaptor (Power over USB for 20MM-SMCTUSC-U60)



Product Code	Product Description
20MM-SMCDTSC-120	10/100M 1310nm (Up to 120KM Distance)
20MM-SMCGSC-80	1000M 1310nm (Up to 80KM Distance)
20MM-SMCTUSC-U60	10/100M 1310nm (Up to 60KM Distance)

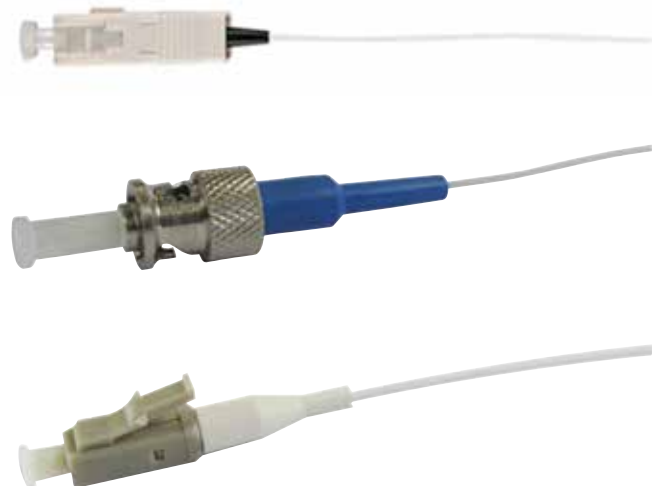
## OM3 Adaptors

### Features and Benefits

- » Features plastic flange or metal flange
- » Used where Duplex adaptor is required
- » Factory manufactured and fully tested
- » Fibre optic adaptor used for joining cables
- » Adaptors can also be used as gender changers
- » RoHS Compliant



Product Code	Type
20MM-AD-OM3-D-LC	LC
20MM-AD-OM3-D-SC	SC
20MM-AD-OM3-S-SC	SC



# Fibre Optics

## Optical Receivers

### Features and Benefits

- » Electronic setting of parameters via push buttons
- » AGC based on optical input level
- » Digital indication of optical input level and other parameters via the LED display
- » Connectors: RF output - type F optical - SC/APC
- » Mains power for convenience 230V ~ 50/60Hz 4W
- » Wide range operating temperature -20 to +50°C

Product Code	Product Description
20MM-OD001A	Mini Optical Node Receiver
20MM-OD004	Terr/SAT Fibre Receiver
20MM-OD100	Optical Receiver with 113dBµV Output
20MM-OD120	Fibre Receiver with High Output and Monitoring



### Specifications

Product Code	20MM-OD001A	20MM-OD004	20MM-OD100	20MM-OD120
Wavelength	1100nm - 1600nm			
Fibre	Single Mode 9/125µm			
Optical Connector	SC/APC			
Required Received Power	-7 - +2dBm			
Output Impedance	75 Ohm			
Output Return Loss	>18dB			
Transmission Bandwidth	47-862MHz	47-2400MHz	47-862MHz	
Controlled Output Level (42 ch, CENELEC)	RF	78-80dBµV	113dBµV	
Attenuator Adjustable	0-10dB (0.5dB Steps)		0-15.5dB (0.5dB Steps)	0-15.5dB (1dB Steps)
RF Test Point at Output	-20dB			
Operating Voltage	187-250 VAC			
Power Consumption	5W	4W	14W	
Connectors	F-Type			

## Optical Splitters (Module)

### Features and Benefits

- » AT series optical splitters offer a range of configurations with single and twin inputs and outputs
- » Uses the industry standard connector SC/APC for optical connection
- » Mounts on the AT series 1RU frame
- » Compact design for low density use of rack space

Product Code	Product Description
20MM-SO414	1x4 with 7dB Insertion Loss
20MM-SO418	1x8 with 10dB Insertion Loss
20MM-SO424	Twin 1x4 with 7dB Insertion Loss Per Split





## Optical TX SMATV

### Features and Benefits

- » LAN control offers WEB monitoring and management of the device
- » Uses the connector SC/APC for optical connection
- » LAN control connector is the RJ45 industry standard connector
- » Mounts on the Terra AT series 19" IRU frame
- » Complimenting these units are the fully redundant power supplies, UP412 and UP413

Product Code	Type
20MM-MO418L-4D31-1310	6dBm
20MM-MO418L-4D55-1550	6dBm
20MM-MO428L-4D31-1310	6dBm x2
20MM-MO428L-4D55-1550	6dBm x2



### Specifications

Product Code	20MM-MO418L-4D31-1310	20MM-MO418L-4D55-1550	20MM-MO428L-4D31-1310	20MM-MO428L-4D55-1550
Optical Power	1x6dBm		2x6dBm	
Optical Wavelength	1310±3nm	1550±3nm	1310±3nm	1550±3nm
Laser Type	DFB			
RF Frequency Range	47-2400MHz			
RF Input Level	70-85dBμV			
RF Input Impedance	0 - -15dB by 1dB Step			
AGC Range	±5dB			
RF Input Loop Through Frequency Range	47-2400MHz			
RF Input Loop Through Loss	<1dB			
RF Input Loop Through Flatness	±1dB			
Return Loss	≥18dB at 40MHz -1.5dB/oct (47-950MHz); ≥10dB up to 1750MHz; ≥7dB up to 2400MHz			
Relative Intensity Noise	< -150dB/Hz			
Terr. TV Intermodulation Distortion CSO**	>55dB			
Terr. TV Intermodulation Distortion CTB**	>60dB			
Terr. TV Carrier/Noise Ratio C/N**	>50dB			
SAT IF Intermodulation Distortions***	>35dB			
Supply Voltage	12V ± 1V			
DC Feeding for External	12V 0.4 A			
Current Consumption	0.35 A max.		0.4 A max.	
Operating Temperature	0 - +50 °C			

\*\* OMI=4.0%, 42 channel CENELEC, optical receiver input power - 2 dBm

\*\*\* OMI=20%, two tone test method according EN50083-3



# Fibre Optics

## Power Supply With E61 Self Monitoring 20MM-UP412

### Features and Benefits

- » Modular reception system power supply with parallel capability and self monitoring via LAN
- » Can be used in parallel for redundancy
- » Switch mode technology
- » Short circuit protected
- » Screw terminal block for DC output power distribution bus
- » Din rail mounting



## WDM Diplexer 1310/1550nm 20MM-WO410

### Features and Benefits

- » Allows combining of 2 optical transmitter services to be multiplexed to one single mode fibre
- » When used with AT series fibre optical transmitters with input range of 47MHz to 2500MHz 3xRF services can be transmitted
- » Offering SMATV and CATV application
- » Signal types of COFDM, QAM, QPSK and AM all compatible
- » Will allow the designer to deliver 2 Sat IF services and 1 x Terrestrial services



## Optical Splitters

### Features and Benefits

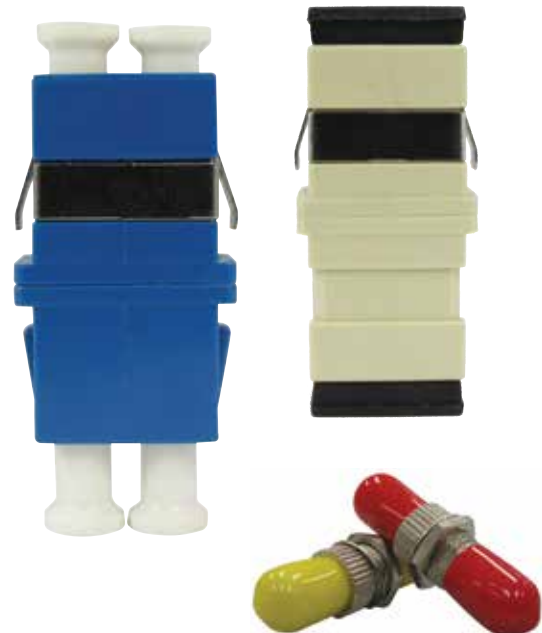
- » Low insertion loss
- » High directivity
- » Good stability and reliability
- » Excellent polarization insensitivity
- » Operating wavelength: 1310nm or 1550nm
- » SC/APC Optical Connector
- » >55dB Return Loss
- » -40 - +85 °C Operating Temperature



## OS2 Adaptors

### Features and Benefits

- » Features plastic flange or metal flange
- » Used where Duplex adaptor is required
- » Factory manufactured and fully tested
- » Fibre optic adaptor used for joining cables
- » Adaptors can also be used as gender changers
- » RoHS Compliant



Product Code	Product Description
20MM-OSP-1*16-S-SC	16 Way (Cassette Style)
20MM-OSP-1*20-19-SC	20 Way (Rack Mounted)
20MM-OSP-1*32-S-SC	32 Way (Cassette Style)
20MM-OSP-1*4-S-SC	4 Way (Stand Alone)
20MM-OSP-1*6-S-SC	6 Way (Cassette Style)

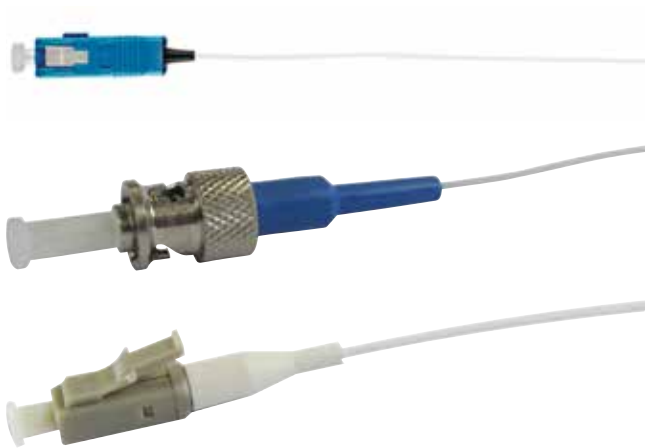
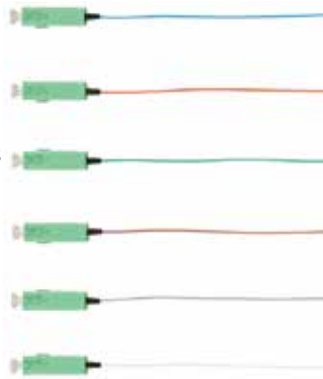
Product Code	Type
20MM-AD-OS2-D-SC	SC
20MM-AD-OS2-D-SCA	SC (APC)
20MM-AD-OS2-S-LC	LC
20MM-AD-OS2-S-SC	SC
20MM-AD-OS2-S-SCA	SC (APC)
20MM-AD-OS2-S-ST	ST

# Fibre Optics

## OS2 Pigtails

### Features and Benefits

- » Rainbow international standard coloured packs
- » Configurations can be made to order
- » Crush and kink resistant
- » Low smoke zero halogen

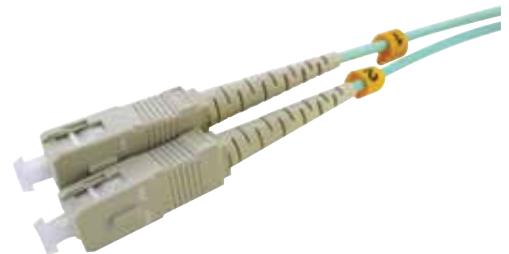


Product Code	Type
20MM-PTS2SC-2	SC 2m
20MM-PTS2SC-2-6	SC 2m 6 Colour
20MM-PTS2SC-2-12	SC 2m 12 Colour
20MM-PTS2ST-2	ST 2m
20MM-PTS2ST-2-6	ST 2m 6 Colour
20MM-PTS2ST-2-12	ST 2m 12 Colour
20MM-PTS2LC-2	LC 2m
20MM-PTS2SCA-1-6	SCAPC 1m 6 Colour
20MM-PTS2SCA-1-12	SCAPC 1m 12 Colour

## SC To SC OM3 Patch Cords

### Features and Benefits

- » Applications include Data Network, Telecommunications, Optical switch networks, industrial and medical
- » 3mm buffer offers industry standard protection
- » Lifetime replacement warranty
- » Low insertion loss less than 0.2dB
- » Return loss for APC >65dB
- » Test reports provided with each patch cord



Product Code	Length
20MM-PM3DSC-1	1m
20MM-PM3DSC-2	2m
20MM-PM3DSC-3	3m
20MM-PM3DSC-5	5m
20MM-PM3DSC-10	10m
20MM-PM3DSC-15	15m
20MM-PM3DSC-20	20m
20MM-PM3DSC-25	25m
20MM-PM3DSC-30	30m

## SC Angled To SC Angled Polished OS2 Patch Cords

### Features and Benefits

- » Applications include CATV, Data Network, Telecommunications, Optical switch networks, industrial and medical
- » 3mm buffer offers industry standard protection
- » Lifetime replacement warranty
- » Low insertion loss less than 0.2dB
- » Return loss for APC >65dB
- » Test reports provided with each patch cord



Product Code	Length
20MM-PS2DSCA-1	1m
20MM-PS2DSCA-2	2m
20MM-PS2DSCA-3	3m
20MM-PS2DSCA-5	5m
20MM-PS2DSCA-10	10m
20MM-PS2DSCA-15	15m
20MM-PS2DSCA-20	20m



# Fibre Optics

## SC To SC OS2 Patch Cords

### Features and Benefits

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- » Test reports provided with each patch cord

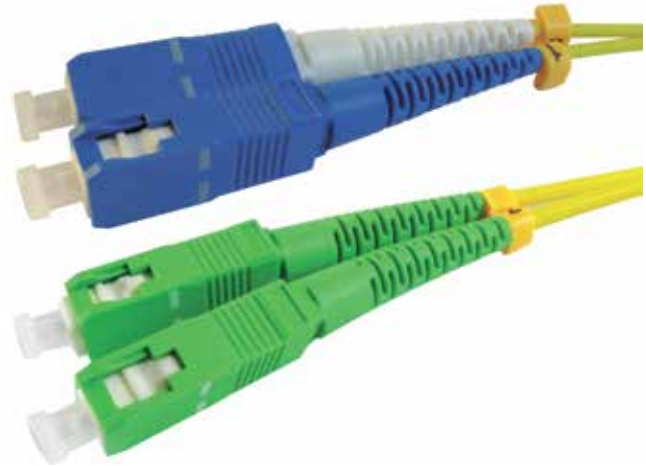


Product Code	Length
20MM-PS2DSC-1	1m
20MM-PS2DSC-2	2m
20MM-PS2DSC-3	3m
20MM-PS2DSC-5	5m
20MM-PS2DSC-10	10m
20MM-PS2DSC-15	15m
20MM-PS2DSC-20	20m
20MM-PS2DSC-25	25m
20MM-PS2DSC-30	30m

## SC To SC Angled OS2 Patch Cords

### Features and Benefits

- » Applications include CATV, Data Network, Telecommunications, industrial and medical
- » 3mm buffer offers industry standard protection
- » Low insertion loss less than 0.2dB
- » Return loss for APC >65dB

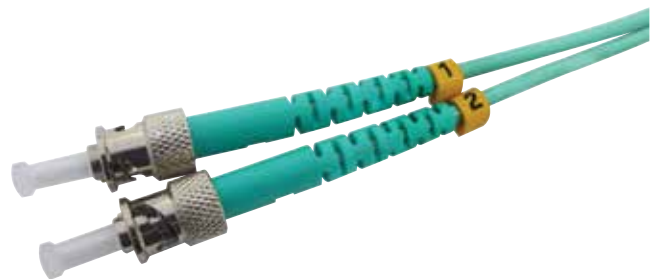


Product Code	Length
20MM-PS2DSCSCA-1	1m
20MM-PS2DSCSCA-2	2m
20MM-PS2DSCSCA-3	3m
20MM-PS2DSCSCA-5	5m
20MM-PS2DSCSCA-10	10m
20MM-PS2DSCSCA-15	15m
20MM-PS2DSCSCA-20	20m

## SC To ST OM3 Patch Cords

### Features and Benefits

- » Applications include Data Network, Telecommunications, Optical switch networks, industrial and medical
- » 3mm buffer offers industry standard protection
- » Lifetime replacement warranty
- » Low insertion loss less than 0.2dB
- » Return loss for APC >65dB
- » Test reports provided with each patch cord



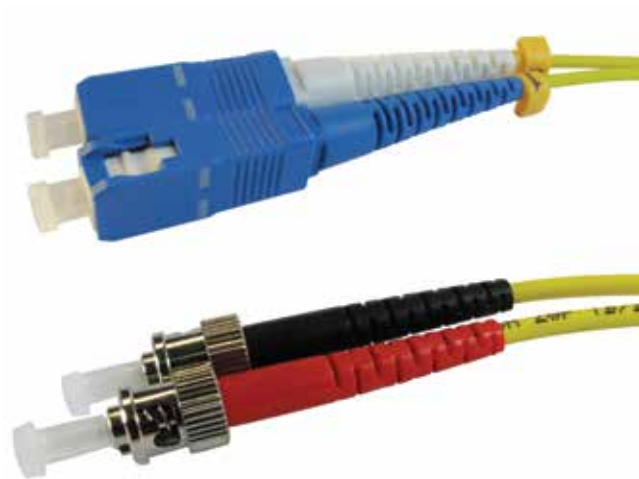
Product Code	Length
20MM-PM3DSCST-1	1m
20MM-PM3DSCST-2	2m
20MM-PM3DSCST-3	3m
20MM-PM3DSCST-5	5m
20MM-PM3DSCST-10	10m
20MM-PM3DSCST-15	15m
20MM-PM3DSCST-20	20m

# Fibre Optics

## SC To ST OS2 Patch Cords

### Features and Benefits

- » Applications include Data Network, Telecommunications, Optical switch networks, industrial and medical
- » 3mm buffer offers industry standard protection
- » Lifetime replacement warranty
- » Low insertion loss less than 0.2dB
- » Return loss for APC >65dB
- » Test reports provided with each patch cord



Product Code	Length
20MM-PS2DSCST-1	1m
20MM-PS2DSCST-2	2m
20MM-PS2DSCST-3	3m
20MM-PS2DSCST-5	5m
20MM-PS2DSCST-10	10m
20MM-PS2DSCST-15	15m
20MM-PS2DSCST-20	20m

## ST To ST OS2 Patch Cords

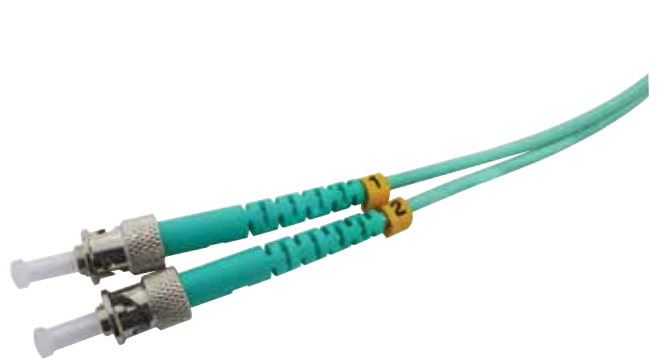
### Features and Benefits

- » Applications include CATV, Data Network, Telecommunications, Optical switch networks, industrial and medical
- » 3mm buffer offers industry standard protection
- » Lifetime replacement warranty
- » Low insertion loss less than 0.2dB
- » Return loss for APC >65dB
- » Test reports provided with each patch cord

## ST To ST OM3 Patch Cords

### Features and Benefits

- » Applications include Data Network, Telecommunications, industrial and medical
- » 3mm buffer offers industry standard protection
- » Lifetime replacement warranty
- » Low insertion loss less than 0.2dB
- » Return loss for APC >65dB
- » Test reports provided with each patch cord



Product Code	Length
20MM-PM3DST-1	1m
20MM-PM3DST-2	2m
20MM-PM3DST-3	3m
20MM-PM3DST-10	10m
20MM-PM3DST-15	15m
20MM-PM3DST-20	20m



Product Code	Length
20MM-PS2DST-1	1m
20MM-PS2DST-2	2m
20MM-PS2DST-3	3m
20MM-PS2DST-5	5m
20MM-PS2DST-10	10m
20MM-PS2DST-15	15m
20MM-PS2DST-20	20m





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