

## Patchcables / Jumper cables

Multimode / Singlemode Patchcables Grade B  
Simplex / Duplex - All range



(pictures for reference purposes only)

### Product description

All range Patchcables are available in several options and configurations in terms of optical fibre and connector types.

Produced in compliance with ANSI/TIA/EIA-568.C.3 about material specifications

Opticonnect® patchcables are 100% inspected during and after their production process. In which the geometry of their components (optic fiber and connectors) may concern, with the only purpose of assuring the best performance and quality.

### Features

- Low insertion loss
- High return loss
- Free floating ceramic ferrule
- UL-rated plastic housing and boot
- Boot in corresponding colors
- High precision alignment
- RoHS 3 compliance
- Grade B

### Applications

- Local Area Networks (LAN)
- Wide Area Networks (WAN)



All product specifications are subject to change without notice to improve reliability, function or design or otherwise.

*Opticonnect SYSTEMS B.V., an Optical Networking vendor with its headquarters in the Netherlands, provides Optical Transport solutions and Optical Transceivers at the best price performance ratio possible. Our goal is to simplify the planning, deployment and maintenance of*

*complex Optical Networks. This is achieved by our user friendly planning apps and information, sophisticated products and transparent support. Relying on our superior product quality, all items are supplied with life time warranty.*



## Ordering information \*

| Partnumber               | Description                                                    |
|--------------------------|----------------------------------------------------------------|
| OPT-PC-LCUSCUSXSM-020    | Patchcable LC/UPC-SC/UPC Simplex SM G657.A1 2m<br>Color Yellow |
| OPT-PC-LCUSCUSXSM-030    | Patchcable LC/UPC-SC/UPC Simplex SM G657.A1 3m<br>Color Yellow |
| OPT-PC-LCUSCUSXSM-050    | Patchcable LC/UPC-SC/UPC Simplex SM G657.A1 5m<br>Color Yellow |
| OPT-PC-LCASCASXSM-020    | Patchcable LC/APC-SC/APC Simplex SM G657.A1 2m<br>Color Yellow |
| OPT-PC-LCASCASXSM-030    | Patchcable LC/APC-SC/APC Simplex SM G657.A1 3m<br>Color Yellow |
| OPT-PC-LCASCASXSM-050    | Patchcable LC/APC-SC/APC Simplex SM G657.A1 5m<br>Color Yellow |
| PT-OPT-PC-LCASCASXSM-020 | Patchcable SC/UPC-SC/UPC Simplex SM G657.A1 2m<br>Color Yellow |
| OPT-PC-SCUSCUSXSM-030    | Patchcable SC/UPC-SC/UPC Simplex SM G657.A1 3m<br>Color Yellow |
| OPT-PC-SCUSCUSXSM-050    | Patchcable SC/UPC-SC/UPC Simplex SM G657.A1 5m<br>Color Yellow |
| OPT-PC-SCASCASXSM-020    | Patchcable SC/APC-SC/APC Simplex SM G657.A1 2m<br>Color Yellow |
| OPT-PC-SCASCASXSM-030    | Patchcable SC/APC-SC/APC Simplex SM G657.A1 3m<br>Color Yellow |
| OPT-PC-SCASCASXSM-050    | Patchcable SC/APC-SC/APC Simplex SM G657.A1 5m<br>Color Yellow |
| OPT-PC-LCULCUSXSM-020    | Patchcable LC/UPC-LC/UPC Simplex SM G657.A1 2m<br>Color Yellow |
| OPT-PC-LCULCUSXSM-030    | Patchcable LC/UPC-LC/UPC Simplex SM G657.A1 3m<br>Color Yellow |
| OPT-PC-LCULCUSXSM-050    | Patchcable LC/UPC-LC/UPC Simplex SM G657.A1 5m<br>Color Yellow |
| OPT-PC-LCALCASXSM-020    | Patchcable LC/APC-LC/APC Simplex SM G657.A1 2m<br>Color Yellow |
| OPT-PC-LCALCASXSM-030    | Patchcable LC/APC-LC/APC Simplex SM G657.A1 3m<br>Color Yellow |
| OPT-PC-LCALCASXSM-050    | Patchcable LC/APC-LC/APC Simplex SM G657.A1 5m<br>Color Yellow |

\* These are the most common lengths and configurations, other lengths and connector types are available



## Ordering information \*

| Partnumber            | Description                                                   |
|-----------------------|---------------------------------------------------------------|
| OPT-PC-LCUSCUDXSM-020 | Patchcable LC/UPC-SC/UPC Duplex SM G657.A1 2m<br>Color Yellow |
| OPT-PC-LCUSCUDXSM-030 | Patchcable LC/UPC-SC/UPC Duplex SM G657.A1 3m<br>Color Yellow |
| OPT-PC-LCUSCUDXSM-050 | Patchcable LC/UPC-SC/UPC Duplex SM G657.A1 5m<br>Color Yellow |
| OPT-PC-LCASCADXSM-020 | Patchcable LC/APC-SC/APC Duplex SM G657.A1 2m<br>Color Yellow |
| OPT-PC-LCASCADXSM-030 | Patchcable LC/APC-SC/APC Duplex SM G657.A1 3m<br>Color Yellow |
| OPT-PC-LCASCADXSM-050 | Patchcable LC/APC-SC/APC Duplex SM G657.A1 5m<br>Color Yellow |
| OPT-PC-SCUSCUDXSM-020 | Patchcable SC/UPC-SC/UPC Duplex SM G657.A1 2m<br>Color Yellow |
| OPT-PC-SCUSCUDXSM-030 | Patchcable SC/UPC-SC/UPC Duplex SM G657.A1 3m<br>Color Yellow |
| OPT-PC-SCUSCUDXSM-050 | Patchcable SC/UPC-SC/UPC Duplex SM G657.A1 5m<br>Color Yellow |
| OPT-PC-SCASCADXSM-020 | Patchcable SC/APC-SC/APC Duplex SM G657.A1 2m<br>Color Yellow |
| OPT-PC-SCASCADXSM-030 | Patchcable SC/APC-SC/APC Duplex SM G657.A1 3m<br>Color Yellow |
| OPT-PC-SCASCADXSM-050 | Patchcable SC/APC-SC/APC Duplex SM G657.A1 5m<br>Color Yellow |
| OPT-PC-LCULCUDXSM-020 | Patchcable LC/UPC-LC/UPC Duplex SM G657.A1 2m<br>Color Yellow |
| OPT-PC-LCULCUDXSM-030 | Patchcable LC/UPC-LC/UPC Duplex SM G657.A1 3m<br>Color Yellow |
| OPT-PC-LCULCUDXSM-050 | Patchcable LC/UPC-LC/UPC Duplex SM G657.A1 5m<br>Color Yellow |
| OPT-PC-LCALCADXSM-020 | Patchcable LC/APC-LC/APC Duplex SM G657.A1 2m<br>Color Yellow |
| OPT-PC-LCALCADXSM-030 | Patchcable LC/APC-LC/APC Duplex SM G657.A1 3m<br>Color Yellow |
| OPT-PC-LCALCADXSM-050 | Patchcable LC/APC-LC/APC Duplex SM G657.A1 5m<br>Color Yellow |

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## Ordering information \*

| Partnumber            | Description                                             |
|-----------------------|---------------------------------------------------------|
| OPT-PC-LCPSCPDXM1-020 | Patchcable LC/PC-SC/PC Duplex MM OM1 2m<br>Color Orange |
| OPT-PC-LCPSCPDXM1-030 | Patchcable LC/PC-SC/PC Duplex MM OM1 3m<br>Color Orange |
| OPT-PC-LCPSCPDXM1-050 | Patchcable LC/PC-SC/PC Duplex MM OM1 5m<br>Color Orange |
| OPT-PC-LCPSCPDXM3-020 | Patchcable LC/PC-SC/PC Duplex MM OM3 2m<br>Color Aqua   |
| OPT-PC-LCPSCPDXM3-030 | Patchcable LC/PC-SC/PC Duplex MM OM3 3m<br>Color Aqua   |
| OPT-PC-LCPSCPDXM3-050 | Patchcable LC/PC-SC/PC Duplex MM OM3 5m<br>Color Aqua   |
| OPT-PC-LCPSCPDXM4-020 | Patchcable LC/PC-SC/PC Duplex MM OM4 2m<br>Color Violet |
| OPT-PC-LCPSCPDXM4-030 | Patchcable LC/PC-SC/PC Duplex MM OM4 3m<br>Color Violet |
| OPT-PC-LCPSCPDXM4-050 | Patchcable LC/PC-SC/PC Duplex MM OM4 5m<br>Color Violet |
| OPT-PC-SCPSCPDXM1-020 | Patchcable SC/PC-SC/PC Duplex MM OM1 2m<br>Color Orange |
| OPT-PC-SCPSCPDXM1-030 | Patchcable SC/PC-SC/PC Duplex MM OM1 3m<br>Color Orange |
| OPT-PC-SCPSCPDXM1-050 | Patchcable SC/PC-SC/PC Duplex MM OM1 5m<br>Color Orange |
| OPT-PC-SCPSCPDXM3-020 | Patchcable SC/PC-SC/PC Duplex MM OM3 2m<br>Color Aqua   |
| OPT-PC-SCPSCPDXM3-030 | Patchcable SC/PC-SC/PC Duplex MM OM3 3m<br>Color Aqua   |
| OPT-PC-SCPSCPDXM3-050 | Patchcable SC/PC-SC/PC Duplex MM OM3 5m<br>Color Aqua   |
| OPT-PC-SCPSCPDXM4-020 | Patchcable SC/PC-SC/PC Duplex MM OM4 2m<br>Color Violet |
| OPT-PC-SCPSCPDXM4-030 | Patchcable SC/PC-SC/PC Duplex MM OM4 3m<br>Color Violet |
| OPT-PC-SCPSCPDXM4-050 | Patchcable SC/PC-SC/PC Duplex MM OM4 5m<br>Color Violet |

\* These are the most common lengths and configurations, other lengths and connector types are available



## Ordering information \*

| Partnumber            | Description                                             |
|-----------------------|---------------------------------------------------------|
| OPT-PC-LCPLCPDXM1-020 | Patchcable LC/PC-LC/PC Duplex MM OM1 2m<br>Color Orange |
| OPT-PC-LCPLCPDXM1-030 | Patchcable LC/PC-LC/PC Duplex MM OM1 3m<br>Color Orange |
| OPT-PC-LCPLCPDXM1-050 | Patchcable LC/PC-LC/PC Duplex MM OM1 5m<br>Color Orange |
| OPT-PC-LCPLCPDXM3-020 | Patchcable LC/PC-LC/PC Duplex MM OM3 2m<br>Color Aqua   |
| OPT-PC-LCPLCPDXM3-030 | Patchcable LC/PC-LC/PC Duplex MM OM3 3m<br>Color Aqua   |
| OPT-PC-LCPLCPDXM3-050 | Patchcable LC/PC-LC/PC Duplex MM OM3 5m<br>Color Aqua   |
| OPT-PC-LCPLCPDXM4-020 | Patchcable LC/PC-LC/PC Duplex MM OM4 2m<br>Color Violet |
| OPT-PC-LCPLCPDXM4-030 | Patchcable LC/PC-LC/PC Duplex MM OM4 3m<br>Color Violet |
| OPT-PC-LCPLCPDXM4-050 | Patchcable LC/PC-LC/PC Duplex MM OM4 5m<br>Color Violet |

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## Technical details

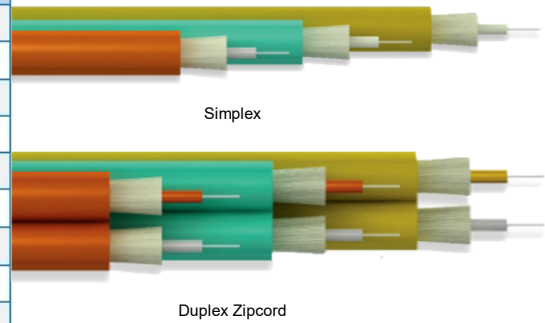
| Connector specifications |              |                  |                  |                  |                  |
|--------------------------|--------------|------------------|------------------|------------------|------------------|
| Connector                | SC Sx        | SC Dx            | LC Dx            | ST Sx            | E2000            |
| Coupling mechanism       | Push-Pull    |                  | Push-Pull        | Bayonet          | Push-Pull        |
| Housing/Coupling         | Plastic      |                  | Plastic          | Metallic         | Plastic          |
| Ferrule                  | Material     | Zirconia Ceramic | Zirconia Ceramic | Zirconia Ceramic | Zirconia Ceramic |
|                          | Diameter     | 2.5mm            | 1.25mm           | 2.5mm            | 1.25mm           |
|                          | Polish type  | PC/UPC/APC       | PC/UPC/APC       | PC/UPC/APC       | PC/UPC/APC       |
| IL (Insertion Loss)      | ≤0,25dB      |                  | ≤0,25dB          | ≤0,25dB          | ≤0,25dB          |
| RL (Return Loss)         | ≥35dB        |                  | ≥35dB            | ≥35dB            | ≥35dB            |
| Operating temp.          | -40°C ~ 70°C |                  | -40°C ~ 70°C     | -40°C ~ 70°C     | -40°C ~ 70°C     |





| Cable specifications |                                 |              |
|----------------------|---------------------------------|--------------|
| Type                 | Simplex                         | Duplex       |
| Outer jacket         | 2,0 ± 0,1mm                     | 2,0 x 4,1mm  |
| Jacket materials     | LSZH                            | LSZH         |
| Weight kg/km         | 3.5                             | 7.0          |
| Strength member      | Aramid yarns                    | Aramid yarns |
| Tight Buffer         | 900µm  PVC                      | 900µm  PVC   |
| Temperature          | -20°C ~ 60°C                    | -20°C ~ 60°C |
| Bend radius          | 20D (dynamic) 10D (static)      |              |
| Crush resistance     | 100N/100mm (LT) 500N/100mm (ST) |              |

(pictures for reference purposes only)



| Cable specifications                 |                                       |                                        |                                        |                                      |
|--------------------------------------|---------------------------------------|----------------------------------------|----------------------------------------|--------------------------------------|
| Fibre type                           | OM1                                   | OM3                                    | OM4                                    | SM                                   |
| Core diameter                        | 62,5 ± 2,5 µm                         | 50 ± 2,5 µm                            | 50 ± 2,5 µm                            | 9 µm                                 |
| Cladding diameter                    | 125 ± 1 µm                            | 125 ± 1 µm                             | 125 ± 1 µm                             | 125 ± 1 µm                           |
| Coating diameter                     | 245 ± 7 µm                            | 245 ± 7 µm                             | 245 ± 7 µm                             | 245 ± 7 µm                           |
| Cladding non circularity             | ≤ 1.0%                                | ≤ 1.0%                                 | ≤ 1.0%                                 | ≤ 1,0%                               |
| Core/Cladding concentricity error    | ≤ 1,5 µm                              | ≤ 1,0 µm                               | ≤ 1,0 µm                               | ≤ 0,6 µm                             |
| Coating non circularity              | ≤ 6.0%                                | ≤ 5.0%                                 | ≤ 5.0%                                 | ≤ 6 µm                               |
| Cladding/Coating concentricity error | ≤ 10 µm                               | ≤ 12 µm                                | ≤ 12 µm                                | ≤ 10 µm                              |
| Cromatic Dispersion                  | 1320 ~ 1365<br>≤ 0,11 ps/nm².km0      | 1295 ~ 1340<br>≤ 0,105 ps/nm².km0      | 1295 ~ 1340<br>≤ 0,105 ps/nm².km0      | 1310 ~ 1625<br>≤ 3,4 ps/nm².km0      |
| Overfilled Modal Bandwidth           | @850 ≥200 mhz*km<br>@1300 ≥200 mhz*km | @850 ≥1500 mhz*km<br>@1300 ≥500 mhz*km | @850 ≥3500 mhz*km<br>@1300 ≥500 mhz*km |                                      |
| Attenuation                          | @850 ≥2,7dB/km<br>@1300 ≥0,6dB/km     | @850 ≥2,4dB/km<br>@1300 ≥0,6dB/km      | @850 ≥2,4dB/km<br>@1300 ≥0,6dB/km      | @1310 ≥0,32dB/km<br>@1550 ≥0,18dB/km |