

Multifibre Full Breakout Cable Assemblies

Optronics multicore full breakout cable assemblies are ideal for short cable runs where a direct connection to equipment or panels is required. The 2mm patch lead style cable subunits are ruggedized, to protect the optical fibre in the demanding environments outside the patch panel or ODF. The network topology can be reduced and simplified by direct connection; bypassing wall boxes, ODFs or fibre patch panels. The end result is greatly improved fibre management.

Features

- > Available in OM1, OM2, OM3, OM4 and OS1/OS2 fibre types
- > 2 - 24 core full breakout cable
- > 2mm ruggedized tails
- > Internal LSZH cable jacket
- > Available with all standard connectivity
- > Factory terminated and tested

Benefits

- > **Rapid Deployment**- factory terminated cabling saves installation and reconfiguration time eliminating field termination variables
- > **High Performance and Reliability**- 100% tested- combination of high quality components and Optronics manufacturing quality control guarantees product to the highest standards
- > **Cost Savings**- Installation time involving costly highly qualified workforce is reduced to the minimum
- > **Direct Connection to Equipment/Panel**- direct connection to active equipment is possible bypassing wall boxes, ODFs and panels reducing fibre management and easing racking space

Application

- > Internal Short Links
- > Front Panel/Equipment Connections
- > Data Centre Infrastructure

Standards Compliance

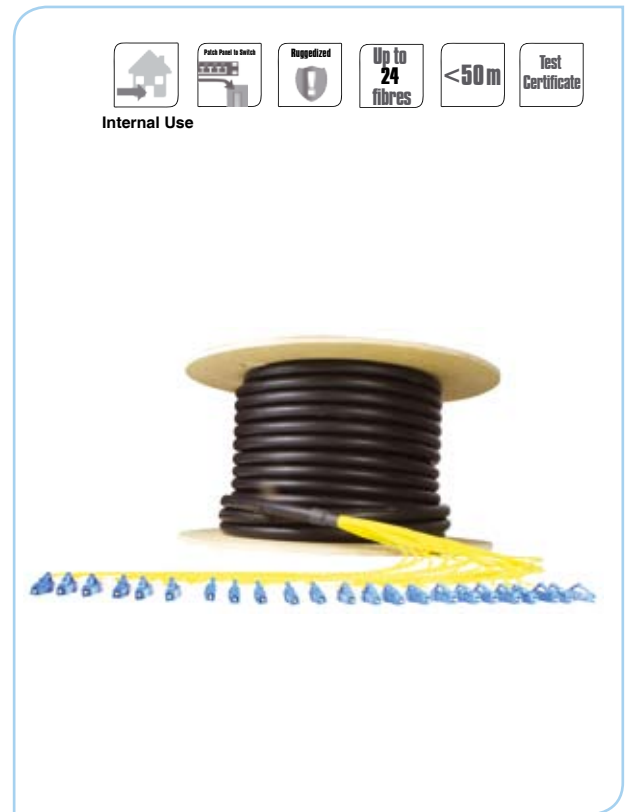
- > TIA/EIA-568-C.3 and ISO/IEC 11801
- > ISO/IEC 60793 and ISO/IEC 60794
- > ISO/IEC 61753, IEC 61754 and IEC 61755
- > ISO/IEC 60332-1, IEC 61034-1/2 and IEC 61754-1/2
- > Compliant to Directive 2002/95/EC (RoHS) and REACH SvHC

Connector Performance

| CONNECTOR MATING | IL Average Standard | IL MAX Standard | IL Average Premium | IL MAX Premium | RETURN LOSS |
|------------------|---------------------|-----------------|--------------------|----------------|-------------|
| LC, SC MM | 0.15 dB | 0.30 dB | 0.08 dB | 0.15 dB | NA |
| LC, SC SM | 0.18dB | 0.25dB | 0.12dB | 0.15dB | >55/65dB |

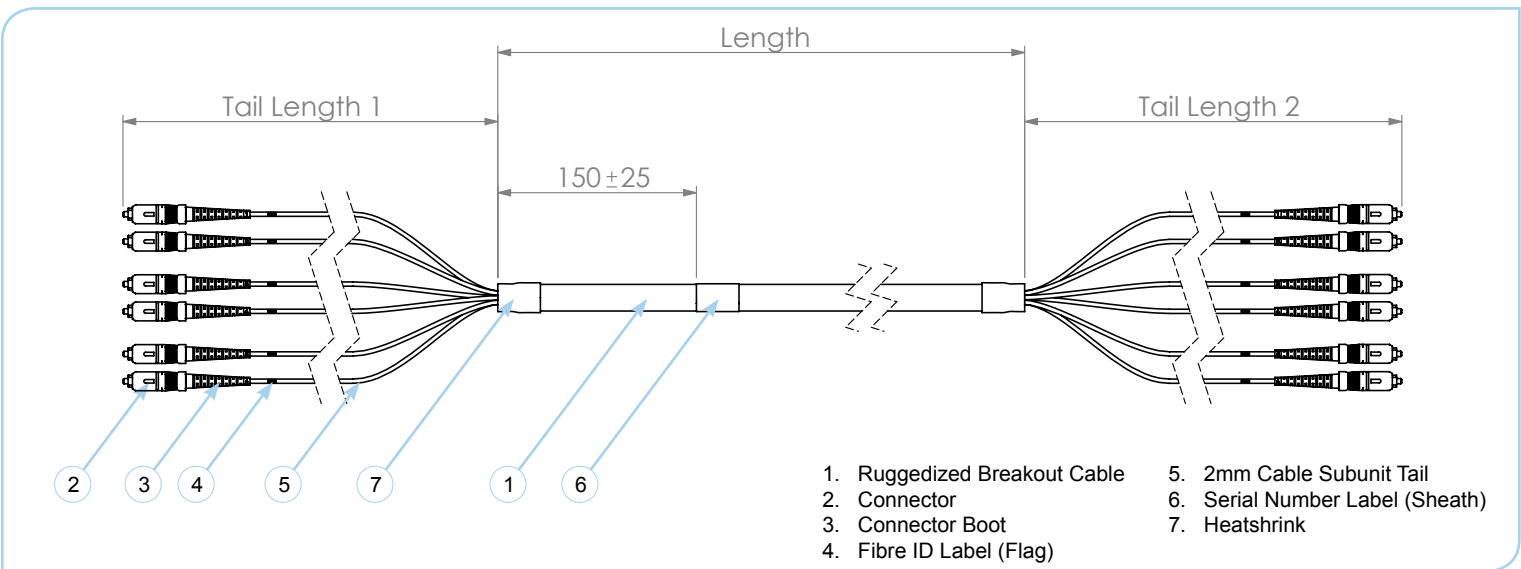
Cable Performance

| FibreType (ISO/IEC 11801) | OS1/OS2 | OM1 | OM2 | OM3 | OM4 |
|-------------------------------------------------------------|--------------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|
| Attenuation Coefficient [dB/km] | ≤ 0.38 Max (1300nm) ≤ 0.25 Max (1300nm) | ≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm) | ≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm) | ≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm) | ≤ 3.5 Max (850nm) ≤ 1.5 Max (1300nm) |
| | ≤ 0.34 Typ (1550nm) ≤ 0.19 typ (1550nm) | ≤ 2.9 Typ (850nm) ≤ 1.2 typ (1300nm) | ≤ 2.7 Typ (850nm) ≤ 0.9 typ (1300nm) | ≤ 2.7 Typ (850nm) ≤ 0.9 typ (1300nm) | ≤ 2.7 Typ (850nm) ≤ 0.9 typ (1300nm) |
| Minimum Bandwidth: Overfilled Launch [Mhz-km] | NA | ≥ 200 (850nm) ≥ 500 (1300nm) | ≥ 500 (850nm) ≥ 500 (1300nm) | ≥ 1500 (850nm) ≥ 500 (1300nm) | ≥ 3500 (850nm) ≥ 500 (1300nm) |
| Minimum Bandwidth: Laser Effective Modal Bandwidth [Mhz-km] | NA | NA | NA | ≥ 2000 (850nm) | ≥ 4700 (850nm) |



Technical Specification

| Element | Characteristic |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Fibre | OS1/OS2, OM1, OM2, OM3, OM4 (ISO/IEC 60793) |
| Cable | Full Breakout 2- 24 cores (ISO/IEC 60794) OD 12 cores 11.8 ± 0.3mm OD 24 cores 14.1 ± 0.3mm Jacket material: LSZH, OFNP* |
| Connectors | IEC 61753, IEC 61754, IEC 61755 |
| Packaging | Length <50mtr: HD PE Bag Length >50mtr: Drum |
| Operating Temperature | -10 ~ +60°C |
| Storage Temperature | -40 ~ +70°C |



Part Number Generator

| PRE | | | | | | /Z | | | | | | | | |
|-----|--------------------|------------------------|-----|-----------|-----|-------------------------|-----|-----------|-----|-------------------|-----|---------------------------|----|---------------------------------|
| | Fibre Count | Connector END A | | | | Connector END B* | | | | Fibre type | | Cable Construction | | Cable length (Mtr) XX |
| | 2 | LC | LC | FC | FC | LC | LC | FC | FC | OS1/OS2 | 09 | Breakout | BO | |
| | 4 | LC/APC | LCA | FC/APC | FCA | LC/APC | LCA | FC/APC | FCA | OM1 | 62 | | | |
| | 6 | SC | SC | E2000 | E2 | SC | SC | E2000 | E2 | OM2 | 50 | | | |
| | 8 | SC/APC | SCA | E2000/APC | E2A | SC/APC | SCA | E2000/APC | E2A | OM3 | OM3 | | | |
| | 12 | ST | ST | | | ST | ST | | | OM4 | OM4 | | | |
| | 16 | | | | | | | | | G.657A1 | A1 | | | |
| | 24 | | | | | | | | | | | | | |

* If end B differ from end A

Example Part Number

PRE4LC09BO20

This part number has created 4 cores OS1/OS2 LC to LC full breakout multifibre cable assembly.