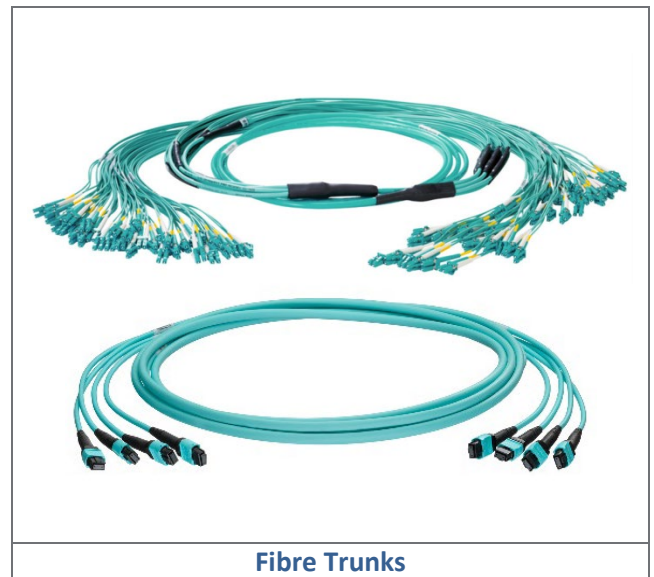


## APPLICATION

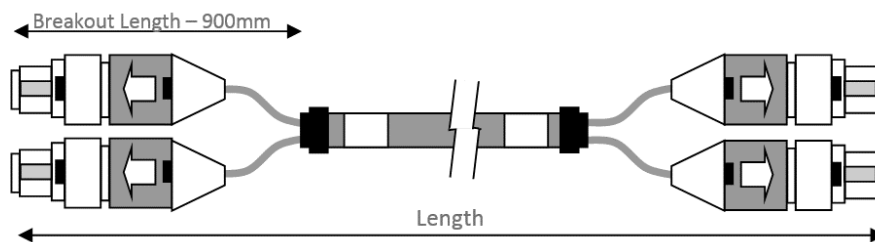
Leviton Fibre Trunks offer a flexible, high-performance, modular system ideally suited to general office and data centre applications. The solution allows for faster installation of backbone cabling links and aids the installation of horizontal fibre to the desk. The range is equally suited to the data centre where multiple point-to-point, fibre connections between distribution racks and equipment racks can be quickly and efficiently installed, maintained and changed. Assemblies are configurable with extensive options on fibre count, length, connector choice and cable construction, all guaranteeing standard exceeding performance.

## FEATURES

- Plug and play technology eliminates the need for complicated and craft sensitive field terminations and splices
- Factory terminated and pre-tested using automated procedures to ensure product quality
- Available in 12, 24, 48, 96, 144 fibre counts
- Standard breakout lengths can be staggered to ease installation
- Pulling eyes are provided as an option to safeguard fibre connectors during installation
- Dual sheathed ruggedized compact data centre cable with aramid yarns for increased tensile strength
- Halogen Free Flame Retardant – Low Smoke cable jacket with EuroClass Cca and Dca options to meet the requirements of the Construction Product Regulation (CPR)



## PHYSICAL CHARACTERISTICS



| Trunk Cable Physical Specifications |            |                               |                |                              |                             |                          |           |                        |              |
|-------------------------------------|------------|-------------------------------|----------------|------------------------------|-----------------------------|--------------------------|-----------|------------------------|--------------|
| Fibre Count                         | CPR Rating | Nominal Outside Diameter (mm) | Weight (kg/km) | Max Installation Tension (N) | Max Crush Resistance (N/dm) | Minimum Bend Radius (mm) |           | Temperature Range (°C) |              |
|                                     |            |                               |                |                              |                             | Installation             | Long Term | Operating              | Storage      |
| 12                                  | Cca        | 4.5                           | 22             | 1000                         | 300                         | 90                       | 67.5      | -5°C to 70°C           | -25°C to 70° |
| 24                                  | Dca        | 5.4                           | 31             | 1000                         | 300                         | 108                      | 81        |                        |              |
| 48                                  | Dca        | 5.7                           | 30             | 800                          | 600                         | 86                       | 57        |                        |              |
| 96                                  | Dca        | 7.5                           | 48             | 800                          | 600                         | 113                      | 75        |                        |              |
| 144                                 | Dca        | 8.9                           | 66             | 800                          | 600                         | 134                      | 89        |                        |              |

| Pulling Eye Outside Dimensions |        |        |            |        |
|--------------------------------|--------|--------|------------|--------|
| Fibre Count                    | MTP®   | LC     | LC Uniboot | SC     |
| 12                             | 25.4mm | 25.4mm | 38.1mm     | 38.1mm |
| 24                             | 25.4mm | 38.1mm | 38.1mm     | 38.1mm |
| 48                             | 38.1mm | 38.1mm | 50.8mm     | 50.8mm |
| 96                             | 38.1mm | 50.8mm | 50.8mm     | 50.8mm |
| 144                            | 50.8mm | 50.8mm | 50.8mm     | 50.8mm |

| Trunk Length Tolerance |               |
|------------------------|---------------|
| Length (m)             | Tolerance (m) |
| 1.0 – 3.0              | +0.1/-0.0     |
| 3.1 – 10.0             | +0.2/-0.0     |
| 10.1 – 50.0            | +0.3/-0.0     |
| 50.1 – 150.0           | +0.6/-0.0     |
| 150.1 – 550.0          | +0.1/-0.0     |

- Staggering: 38mm
- Length: 3-500m
- Available in increments of 0.0m, 0.2m, 0.5m and 0.8m

## PACKAGING DETAILS

- Shorter lengths are supplied in a coil packed in an individual bag (max coil length depends on the configuration)
- Longer lengths supplied on a reel
- Terminated ends protected to avoid damage during transit

## LABELLING

- Standard labelling:
  - Trunk label on each end detailing the part number, end, length, polarity and serial number
  - Label on each leg detailing the leg number and end
- Custom labelling also available

## PERFORMANCE

Fibre Trunks are designed and manufactured to conform to the requirements of the structured wiring cabling standards ISO/IEC 11801 latest amendments, EN 50173-1, TIA 568C series and the data centre cabling standards IEC 24764, EN 50173-5 and TIA 942. MTP® connectors conform to IEC 61754-7 and TIA 604-5.

The ultra-high quality of the connector system allows multi-connector links to be configured within whilst still meeting optical budgets of high speed applications.

| Connector Performance |                     |         |                          |
|-----------------------|---------------------|---------|--------------------------|
| Connector Type        | Insertion Loss (dB) |         | Return Loss Minimum (dB) |
|                       | Typical             | Maximum |                          |
| LC Multimode          | 0.10                | 0.20    | 20                       |
| SC Multimode          | 0.15                | 0.30    | 20                       |
| MTP Multimode         | 0.10                | 0.35    | 20                       |
| LC Singlemode         | 0.10                | 0.20    | 65                       |
| SC Singlemode         | 0.15                | 0.30    | 55                       |
| MTP Singlemode (APC)  | 0.10                | 0.35    | 60                       |

| Cable Performance |                 |                             |                             |
|-------------------|-----------------|-----------------------------|-----------------------------|
| Fibre Type        | Wavelength (nm) | Typical Attenuation (dB/km) | Maximum Attenuation (dB/km) |
| OM3               | 850             | 2.6                         | 3.0                         |
|                   | 1300            | 0.6                         | 1.0                         |
| OM4               | 850             | 2.6                         | 3.0                         |
|                   | 1300            | 0.6                         | 1.0                         |
| OS2               | 1310            | 0.3                         | 0.4                         |
|                   | 1550            | 0.2                         | 0.4                         |

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| Make to order! |             | Fibre Trunk             |                          |                 |               |             |              |           |
|----------------|-------------|-------------------------|--------------------------|-----------------|---------------|-------------|--------------|-----------|
| FIBRE TYPE     | FIBRE COUNT | TERMINATION (FIRST END) | TERMINATION (SECOND END) | CORD LENGTH (m) | STAGGERED END | PULLING EYE | POLARITY     | LABELLING |
| OS2            | 12          | MTP (male)              | MTP (male)               | 3-500           | Yes           | Yes         | MTP Method A | Standard  |
| OM3            | 24          | MTP (female)            | MTP (female)             |                 | No            | No          | MTP Method B | Custom    |
| OM4            | 48          | LC (TIA boot colours)   | LC (TIA boot colours)    |                 |               |             | MTP Method C |           |
|                | 96          | LC Uniboot              | LC Uniboot               |                 |               |             | A-A          |           |
|                | 144         | SC (TIA boot colours)   | SC (TIA boot colours)    |                 |               |             | A-B          |           |
|                |             | LC APC                  | LC APC                   |                 |               |             |              |           |
|                |             | SC APC                  | SC APC                   |                 |               |             |              |           |



*“Leviton is **dedicated to designing, developing and manufacturing** sustainable **high performance** structured cabling and speciality **cabling solutions**”*

The information contained in this document is valid and correct at the time of issue. Leviton reserves the right to modify details without notice in light of subsequent standard/specification changes and ongoing technical developments.