

MCD1520



Optical Fibre Mini Cable for Blowing into Micro-ducts

Outdoor cable - Dielectric

From 12 to 288 fibres



Applications

ACOPTIC® is the brand name for ACOME Groups optical fibre cable solutions for telecom networks.

MCD1520 cables are the **solution for micro-ducts** based outdoor backbones and access networks.

This range of cables is blown on short and large distances, they have been tested on our own blowing track, but also by an independent third party.

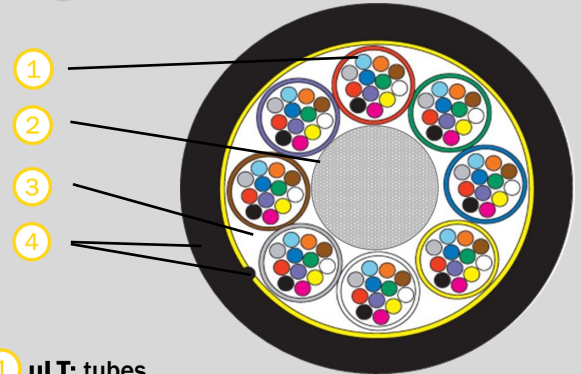
Benefits

- Compliance with 10(12)/8mm micro-ducts (from 12 to 96F), 12(14)/10mm (for 144fo), 14(16)/12mm (for 288F)
- **Robust and compact design.**
- Very low friction sheath enabling **good blowing performance**
- **Versatility** of the available versions (fibre type, colour coding).

Standards

IEC/EN 60793-1-1 (fibre)
IEC/EN 60794-5-10 (cable)

Design



- ① **µLT: tubes** of 12 single mode fibres (G652D or G657A1, available on request in G.657.A2)
- ② **Central strength member**
- ③ **Watertightness** : Water blocking yarns
- ④ **Low friction outer jacket** : Black High Density Polyethylene (HDPE) + Rip Cord

Example : 96f — 12 f per tube

Storage, Packaging & Installation

Cable protection on the drum

Cables are delivered with a covering for protection until they are required for installation.

Guidelines access

Guidelines for storage, transportation & cable installation can be found in our [ACOPTIC® guide](#)

Cable Implementation sheet available under [APC MCD Micro-Loose Tube](#)



MCD1520



MCD1520 Technical Information

| Fibre Count | Fibres per Tube | Nb of Tubes + dummy tubes | Nominal Cable Ø in mm | Minimum Inner Ø Duct Size in mm | Maximum Tensile Strength (N) ⁽¹⁾ | Crush Resistance N/cm | Minimum Bending Radius (mm) | Nominal Weight (kg/km) | Part Number ⁽²⁾ with G.652.D | Part Number ⁽²⁾ with G.657.A1 | Carbon Footprint ⁽²⁾ in (kgCO ₂ e/km cable) |
|-------------|-----------------|---------------------------|-----------------------|---------------------------------|---|-----------------------|-----------------------------|------------------------|---|--|---|
| 12 f | 12 | 1 + 5 | 5.8 | 8 | 700 | 50 | 120 | 25 | H0438x | H1009x | 109.5 |
| 24 f | 12 | 2 + 4 | 5.8 | 8 | 800 | 50 | 120 | 26 | H0439x | H1010x | 136.0 |
| 36 f | 12 | 3 + 3 | 5.8 | 8 | 800 | 50 | 120 | 27 | H0440x | H1011x | n/a |
| 48 f | 12 | 4 + 2 | 5.8 | 8 | 800 | 50 | 120 | 28 | H0441x | H1012x | 189.9 |
| 60 f | 12 | 5 + 1 | 5.8 | 8 | 800 | 50 | 120 | 29 | H0442x | H1013x | n/a |
| 72 f | 12 | 6 | 5.8 | 8 | 800 | 50 | 120 | 31 | H0443x | H1014x | 251.2 |
| 96 f | 12 | 8 | 5.8 | 8 | 1 000 | 50 | 120 | 35 | H0445x | H1015x | 291.1 |
| 144 f | 12 | 12 | 7.6 | 10 | 1 200 | 50 | 160 | 50 | H0446x | H1016x | 439.7 |
| 288 f | 12 | 24 | 9.0 | 12 | 1 500 | 50 | 180 | 70 | H0486x | H1017x | 794.0 |

(1) fibre elongation ≤ 0,6%

(2) At the end of part numbers the "x" is replaced by a letter that indicates minor changes such as colour code and/or marking

(3) Total carbon footprint over the entire product life cycle, LCA carried out in accordance with the PEP framework (PCR/PSR -0001 ed.4) and the cable-specific rules defined in IEC TR 62839-1:2025 – please contact our teams for further information.

| | | |
|-------------------------------|--|---------------|
| Temperature Performance | Transport & storage | -40 °C/+70 °C |
| | Installation | -10 °C/+50 °C |
| | Operation | -40 °C/+70 °C |
| Marking | Day Month Year of production - ACOME MCD1520 - Number and type of fibres - M12 - P/N - metrics | |
| Standard Delivery Drum Length | 4000m / 6000m | |

Colour Code

| Fibre/ Tube | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|--------------|----------------|---------------|---------------|--------------|---------------|-------------|---------------|----------------|----------------|--------------|--------------|
| EIA/TIA 598 D EN 50174-1 (Ireland, USA) | Blue | Orange | Green | Brown | Grey | White | Red | Black | yellow | Violet | Rose | Aqua |
| Tube | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| | Blue +1 ring | Orange +1 ring | Green +1 ring | Brown +1 ring | Grey +1 ring | White +1 ring | Red +1 ring | White +2rings | Yellow +1 ring | Violet +1 ring | Rose +1 ring | Aqua +1 ring |

ACOME selection guide for Microducts

MCD1520 : 12f 250µm / tube
MCD1521-HD : 24f 200µm / tube

| Microduct Inner-Ø | 12-72f | 96f | 144f | 192f | 216f | 288f | 432f | 576f |
|-------------------|------------|-----------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|------------|------------|
| Ø 6 | MCD1522-HD | | | | | | | |
| Ø 8 | MCD1520 | MCD1520 MCD1522-HD | MCD1521-HD MCD1522-HD | MCD1521HD | | | | |
| Ø 10 | MCD1520 | MCD1520 | MCD1520 MCD1521-HD MCD1522-HD | MCD1520 MCD1521-HD MCD1522-HD | MCD1520 MCD1521-HD MCD1522-HD | MCD1521-HD MCD1522-HD | MCD1521-HD | |
| Ø 12 | | | MCD1520 | MCD1520 | MCD1520 | MCD1520 MCD1521-HD MCD1522-HD | MCD1521-HD | MCD1521-HD |

For other requirements (delivery length, color code, additional technical information, etc.), please contact us.