

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.

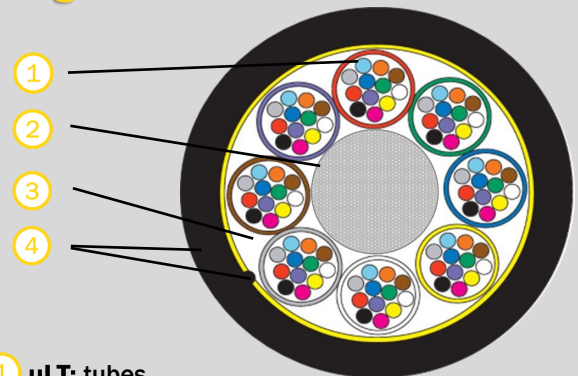
Benefits

- 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 ⁽¹⁾ (N)	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 Foot-print ⁽²⁾ in (kgCO ₂ eq/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.