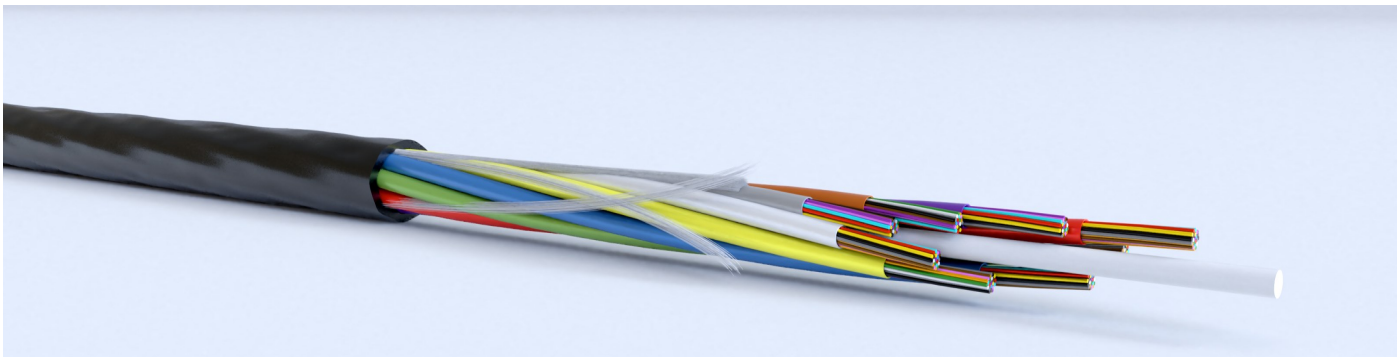
MCD1521-HD

High Density Optical Fibre Mini Cable for blowing into microducts
Outdoor cable - Dielectric
From 144 to 576 fibres



Applications

ACOPTIC® is the range of ACOME's optical cables solutions for telecom networks.

The MCD1521-HD range is **high-density Mini-Cables** designed to be blown into Microducts installed for telecom networks (Transport and access networks).

The MCD1521-HD is **designed to be used with small microducts** either on new installation or to upgrade existing installations. 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

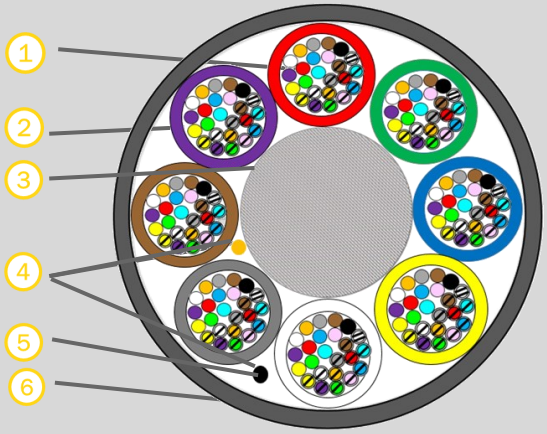
Benefits

- **Density:** Up to **3 times more fibres in the same microducts** as classic micro-cables :
  - up to 192 fibres with 8/10 mm Microducts
  - up to 432 fibres with 10/12 mm Microducts
  - up to 576 fibres with 12/15 mm Microducts

- **Convenient:** ACOME's 200µm Optical fibre is fully compatible with G652D, G657A1 and G657A2

- **Efficiency:** Together with the low friction sheath material HDPE, the shape of the cable offers reduced contact surface to its low friction sheath.

Design



1. **Single Mode fibres with 200 µm diameter**
2. **HD-Tube®** with 24 fibres
3. **Central strength member :** rigid FRP
4. **Watertightness:** Dry water blocking elements
5. Rip Cord
6. **Low friction outer jacket:** HD Polyethylene

Example : 192f (8x24f per tube)

Standards

IEC/EN 60793 (fibre)
IEC/EN 60 794-5-10 (cable)

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

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MCD1521-HD

MCD1521 Technical Information

Fibre Count	Fibres per Tube	Nb of 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 G.657.A1 200 µm	Part Number G.657.A2 200 µm	Carbon Foot-print(2) in ($kgCO_2eq$/km cable)
144f	24	6	5.5	8	1000	50	110	26	H0956A	H0168A	389.4
192 f	24	8	6.1	8	1200	50	120	36	H0957A	H0163B	511.6
216 f	24	9	6.7	10	1300	50	135	43	H0958A	-	n/a
288 f	24	12	8.1	10	1500	50	160	56	H0959A	H0166A	780.7
432 f	24	18	8.4	10	1200	50	170	60	H0960A	-	n/a
576 f	24	24	9.8	12	1750	50	200	86	H0961A	-	n/a

(1) fibre elongation ≤ 0,6%
(2) 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	-30°C/+60°C
Marking		Day Month Year — ACOME MCD1521HD — fibre qty x fibre type — M24 — P/N — metric
Standard Delivery Drum Length		4000m / 6000m

Colour code

Fibre / Tube number	1	2	3	4	5	6	7	8	9	10	11	12
DIN VDE0888	Red	Green	Blue	Yellow	White	Grey	Brown	Violet	Turquoise	Black	Orange	Pink
Fibre number	13	14	15	16	17	18	19	20	21	22*	23	24
	Red + 1 ring	Green + 1 ring	Blue +1 ring	Yellow +1 ring	White +1 ring	Grey +1 ring	Brown +1 ring	Violet +1 ring	Turquoise +1 ring	Natural + 1 ring	Orange +1 ring	Pink +1 ring

*Fibre 22 : Natural + 1 ring or white fibre with 2 rings

ACOME selection guide for Microducts

MCD1520 : 12f 250µm / tube
MCD1521-HD : 24f 200µm / tube
MCD1522-HD : 12f 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, colour code, additional technical information, etc.), please contact us.

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