Concentric Core CFU Aerial Micro cable 4-96 fibers, TOL 401 9001

Aerial duct cable GAHLDV

Features

- Excellent installation performance
- Easy to strip and identify fibers
- Very good temperature performance
- 4-24 fibers
- Diameter from 4.0 mm
- Robust and flexible design
- Halogen-free sheath

GAHLDV is a fiber optic micro cable for aerial duct installation and is the major building block in Ericsson's Micronet aerial system for access and metropolitan networks.

The micro cable consists of up to eight compact fiber units (CFU) with 4 fibers per unit. This enables a fiber count from 4 to 24 fibers.

The versatility of this cable design has enabled a very compact and small fiber cable that can be installed in pipes with an inner diameter of 5.5 or 8 mm.

The micro cable is based on proven Ericsson fiber optic cable technology.

Typical data

Temperature range	
Operation	-30 till +70°C
Storage*	-40 till +70°C
Installation	-15 till +50°C
Cable temperature, blow installation	-15 till +40°C
Bending radius temporary or permanent only one turn	
4-24 fiber	≥ 80 mm
Bending radius during installation and permanent	
4-24 fiber	≥ 130 mm
Tensile force during installation	
4-24 fiber	≤ 300 N
Crush resistance	
4-24 fiber	≤ 1000 N/10 cm
Typical installation performance in 10/8 mm duct	
4-24 fiber	Up to 2000 m
Delivery lengths	
4-24 fiber	4.8 km
Drum diameter	
4-24 fiber	0.76 m

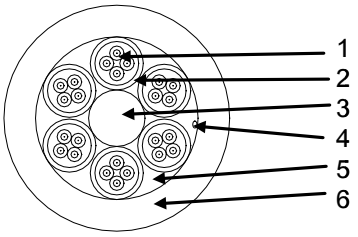
The cable is length water blocking according to IEC 60794-1-2-F5.
Mechanical and environmental test in accordance with draft IEC 60794-5
Fiber parameters and tests according to the IEC series 60793-2 and 60793-1
* The cable shall not be stored in direct sun light. The sun may heat up the cable over the permitted temperature limit.

Order information

Order number	No. of fibers	Diameter [mm]	Weight [kg]
TOL 401 9001/4A	4	4.0	14
TOL 401 9001/8A	8	4.0	14
TOL 401 9001/12A	12	4.0	14
TOL 401 9001/16A	16	4.0	14
TOL 401 9001/20A	20	4.0	14
TOL 401 9001/24A	24	4.0	14

This ordering information covers standard types of the GAHLDV cable. The order number corresponds to a cable with single-mode G652D fibers colored according to standard Ericsson color code (see product information “Standard Ericsson fiber color code”).

Other combinations such as fiber types, fiber colors and specific technical information are available on request, please contact sales department.



Design

1 Primary coated fiber ..... Silica, acrylate
2 Secondary coating (CFU) ... Acrylate
3 Central strength member .... Glass fiber reinforced plastic
4 Slit up yarn ..... Aramid yarn
5 Filling compound ..... Thixotropic gel
6 Sheath..... Polyethylene, (black), halogen free

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