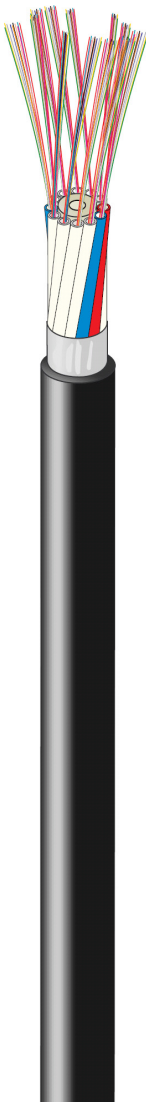
Concentric Core Loose tube 2-144 fibers TOL 401 2034

Duct cable GRHALV Al moisture barrier



Features

- Concentric core design
- 2–144 fibers, single-mode, multimode or both
- Aluminum foil as extra moisture barrier
- Cost effective

GRHALV is a loose tube cable using concentric core design, enabling a cost effective solution.
Each tube contains up to 12 fibers, and the cable up to 12 tubes.

Aluminum foil provides an excellent barrier against moisture, making the cable suitable for installation in humid environments.

Water blocking filling compound and water blocking tape prevents water penetration along the cable.

Typical data

Temperature range[1)]
Operation .....–30 to +70ºC
Storage .....–40 to +70ºC
Installation.....–15 to +50ºC

Bending radius[1)]
Temporarily unloaded.....≥ 10×cable diameter
Permanently (one turn) and during installation
≥ 15×cable diameter

Tensile force[1)]
During installation.
≤ 48 fibers .....≤ 2.7 kN
> 48 to ≤ 96 fibers.....≤ 3.5 kN
> 96 to ≤ 144 fibers.....≤ 4.5 kN
Permanently
≤ 48 fibers .....≤ 1.5 kN
> 48 to ≤ 96 fibers.....≤ 2.0 kN
> 96 to ≤ 144 fibers.....≤ 2.5 kN

Crush resistance[1)] .....≤ 1.5 kN/100 mm

Water penetration
Complies with .....IEC 60794-1-2-F5

Delivery information
Supplied lengths .....2 or 4 km
Drum type[2)]

1) Tested in accordance with IEC 60794-1
2) See drum tables

Order information

Product number	No. of fibers	Diameter [mm]	Weight [kg/km]
TOL 401 2034/24A	24	12.5	130
TOL 401 2034/48A	48	12.5	130
TOL 401 2034/96A	96	16.5	220
TOL 401 2034/144A	144	20	330

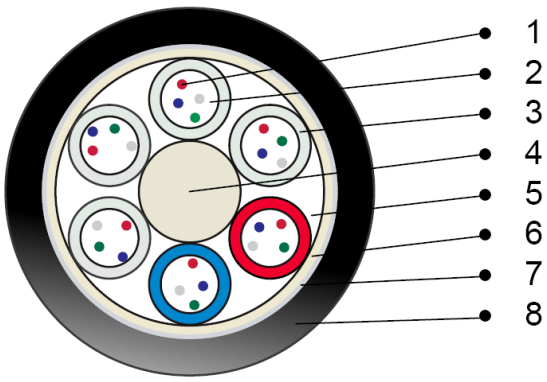
This ordering information covers standard types of the GRHALV cable. The order number corresponds to a cable with standard single-mode fibers colored according to standard Ericsson color code (see product information “Standard Ericsson fiber color code”).

Other combinations such as:
- fiber types - fiber colors
- total number of fibers
- number of fibers in each tube

and specific technical information are available on request.

Design

1 Primary coated fiber..... Silica, acrylate
2 Filling compound ..... Thixotropic gel
3 Loose tube ..... PBT
4 Central strength member ... Glass fiber reinforced plastic. The strength member can be up-coated with PE
5 Filling compound ..... Polybutene based jelly
6 Wrapping ..... Polyester and water blocking tape
7 Moisture barrier ..... PE-Al-PE laminate
8 Sheath ..... Polyethylene (black)



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