Concentric Core Loose tube DryTech 72-192 fibers TOL 402 2039

Direct buried GRCLWLV Corrugated steel tape reinforcement

Features

- Easy to strip and identify fibers
- Dry construction
- Small outer diameter
- Corrugated steel tape reinforcement
- Flexible cable construction

GRCLWLV is a loose tube cable using concentric core design, with small loose tubes, only 2.4mm, with 12 fibers in each tube.

GRCLWLV is designed for direct burial installation. The corrugated steel tape reinforcement provides good mechanical protection, yet the cable retains outstanding flexibility for easy installation.

The cable is very easy to install, due to the small diameter and low weight.

DryTech™ filling compound, a foamed thermoplastic elastomer, is used as water blocking in the cable.

Typical data

Temperature range	
Operation	-30 to +70°C
Storage	-40 to +70°C
Installation	-15 to +60°C
Cable bend radius	
During installation	≥ 10xcable diameter
During operation	≥ 15xcable diameter
Tensile force	
During installation	
12 to 72 fibers	≤ 3.0 kN
96 to 192 fibers	≤ 4.0 kN
During operation	
12 to 72 fibers	≤ 1.5 kN
96 to 192 fibers	≤ 2.0 kN
Crush resistance	≤ 3.0 kN/10cm
Water penetration in accordance with	IEC 60794-1-2-F5B
Delivery lengths	2-12 km

Mechanical and environmental test in accordance with IEC 60794-1
Fiber parameters and tests according to the IEC series 60793-2 and 60793-1

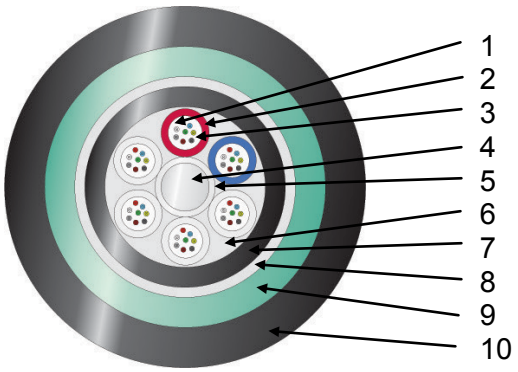
Order information

Order number	No. of fibers	Diameter [mm]	Weight [kg]
TOL 402 2039/72A	72	16	205
TOL 402 2039/96A	96	17	250
TOL 402 2039/144A	144	20	340
TOL 402 2039/192A	192	24	440

This ordering information covers standard types of the GRCLWLV 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

Specific technical information is available on request.



Design

1 Primary coated fiber..... Silica, acrylate
2 Loose tube..... PBT
3 Filling compound ..... Thixotropic gel
4 Central strength member ….. Glass fiber reinforced plastic
5 Coating…….. Polyethylene
6 Water blocking……. DryTech (polyester)
7 Sheath..... Polyethylene (black)
8 Water blocking Water swellable tape
9 Armoring…….…. Corrugated steel tape
10 Sheath..... HD-Polyethylene (black)

© Ericsson AB 2013