

## Concentric Core Loose Tube DryTech 72-192 Fibers – TOL 402 2042

Direct Buried GRCLLDV Non-metallic Reinforcement



### Features

- Dry construction
- Concentric core design
- Dielectric
- Small outer diameter
- ITU-T-G652.D fibers
- Thermoplastic cushion layer
- Easy to strip and identify fibers

### Application

GRCLLDV is a loose tube cable using concentric core design, with small loose tubes, only 2.4 mm.

GRCLLDV is designed for direct buried installation. The cable is completely dielectric making it suitable for installation in environments where there is electrical interference.

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.



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### Typical Data

Temperature range

Operation ..... -20 to +70°C

Storage ..... -40 to +70°C

Installation ..... -15 to +60°C

Bending radius

During installation .....  $\geq 10 \times$  cable diameter

During operation .....  $\geq 15 \times$  cable diameter

Tensile force

During installation

12-72 fibers .....  $\leq 3.0$  kN

96-192 fibers .....  $\leq 4.0$  kN

During operation

12-72 fibers .....  $\leq 1.5$  kN

96-192 fibers .....  $\leq 2.0$  kN

Crush resistance

.....  $\leq 3.0$  kN/10cm

Water penetration

In accordance with ..... IEC 60794-1-2-F5B

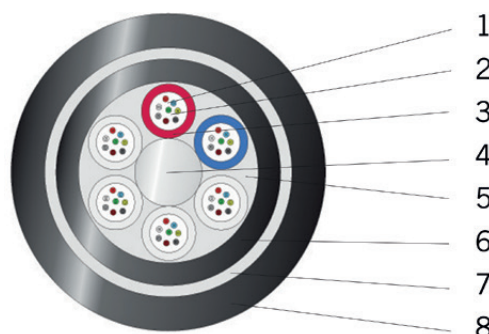
### Delivery Information

Supplied 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

### Design

1. Primary coated fiber ..... Silica, acrylate
2. Filling compound ..... Thixotropic gel
3. Loose tube ..... PBT
4. Central strength member ..... Glass fiber reinforced plastic
5. Water blocking ..... DryTech™ (polyester)
6. Sheath ..... Polyethylene, black
7. Cushion layer ..... TPE-O
8. Sheath ..... HD-Polyethylene black



### Ordering Information

PRODUCT NUMBER	NUMBER OF FIBERS	DIAMETER (MM)	WEIGHT (KG/KM)
TOL 402 2042/72A	72	19.0	230
TOL 402 2042/96A	96	20.2	270
TOL 402 2042/144A	144	23.4	360
TOL 4012 2042/192A	192	26.6	460

This ordering information covers standard types of the GRCLLDV cable.

The order number corresponds to a cable with standard single mode fibers colored according to standard Hexatronic color code (see product information "Standard Hexatronic 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.