

Prepared (also subject responsible if other) HCI/T Jonas Ekstedt		No. 1301-TOL 401 2113 Uen		
Approved HCI/T Roger Färlin	Checked	Date 2016-09-13	Rev C	Reference

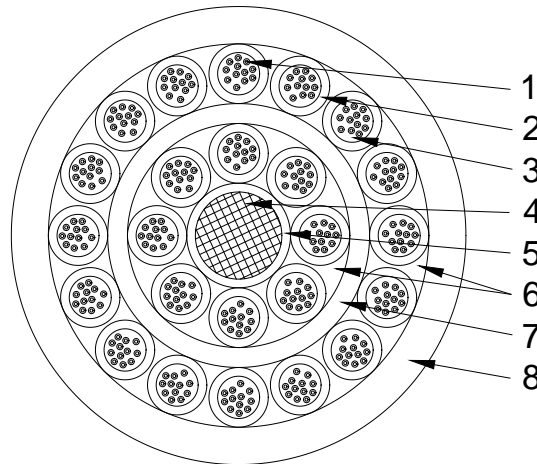
**OPTICAL CABLE DIELECTRIC DUCT GRCLDV 288 fibres G.652.D (12 fibres/tube)**

**1 DESIGN**

	Diameter
1. Primary coated fibre: Silica, acrylate	0.25 mm
2. Secondary coating tube: PBT	2.4 mm
3. Filling compound: Thixotropic gel	
4. Strength member: Fibre Reinforced Plastic (FRP)	3.5 mm
5. Coating: Polyethylene	4.2 mm
6. Filling: Foamed thermoplastic elastomer (TPE-O)	
7. Inner sheath: Polyethylene, black, t=0.65 mm	10.7 mm
8. Outer sheath: Polyethylene, black, t=1.5 mm	19.5 mm
No of tubes in inner/outer layer	8/16

**1.1 CROSS SECTION**

12 fibres/tube



**1.2 COLOUR CODING**

Secondary coating tubes:

Inner Layer: Red (1), Green (2), White (3), White (4), White (5), White (6), White (7), White (8)

Outer Layer: Red (1), Green (2), White (3), White (4), White (5), White (6), White (7), White (8), White (9), White (10), White (11), White (12), White (13), White (14), White (15), White (16)

Fibres in each tube:

White (1), Red (2), Yellow (3), Green (4), Blue (5), Grey (6), Brown (7), Black (8), Violet (9), Turquoise (10), Orange (11), Pink (12)

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## 2 SECURITY

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## 3 SHEATH MARKING

Standard marking 1 time/meter.

"HEXATRONIC yymmddtt TOL 401 2113/288P FO-288/SM/B1.3-DUCT-D zzzzz Batch-ID" where

yymmddtt = Year, month, day, hour of manufacture  
 zzzzz = Running meter marking  
 TOL 401 2113/288P = Article number, Hexatronic

## 4 CABLE PROPERTIES

Temperature range, operation [°C] -40 to +60  
 Temperature range, storage [°C] -40 to +70  
 Temperature range, handling [°C] -15 to +60

Cable bend during installation, radius [mm] no damage	10 x cable diameter
Cable bend during operation, radius [mm] $\Delta\alpha \leq 0.05$ dB, no damage	15 x cable diameter
Crush resistance [kN/100 mm] $\Delta\alpha \leq 0.05$ dB, no damage	$\leq 1.5$
Tensile force, during installation [kN] fibre strain $\leq 0.5\%$ , $\Delta\alpha$ reversible	$\leq 3.8$
Tensile force, during operation [kN] no fibre strain, $\Delta\alpha \leq 0.05$ dB	$\leq 2.0$
Impact [J] $\Delta\alpha \leq 0.05$ dB (after test)	15
Cable net weight [kg/km]	300
Factory length [km]	2 - 8
Drum Flange Diameter [m]	1.6 - 2.6

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## 5 OPTICAL CHARACTERISTICS

Optical fibre specification      1301-TOF 401 1033+      (G.652.D)

## 6 REFERENCES

- [1] 284 21-FAU 104 04      Generic Requirements Specification of Design for Environment
- [2] 2400-2965      Combined Classification Report for Non-Dual use products
- [3] IEC 60794-1-2      Mechanical and environmental tests