Duct and Direct Buried Drop Cable

1-12 fibers G657A1 TIA598

Features

- Excellent installation performance
- Easy to strip and identify fibers
- Very good temperature performance
- 1-12, G657.A1 bend resistant fibers
- Diameter 6.1x3.3 mm
- Robust and flexible design
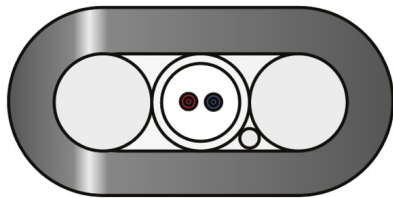- Halogen free sheath

Application

The cable is a fiber optic drop cable designed for low-cost subscriber connections such as fiber-to-the-home (FTTH) or fiber-to-the-building (FTTB) networks, bridging the space between the distribution network and the subscriber premises. The drop cable can be installed in ducts or be direct buried.

Design

The drop cable, based on the well proven loose tube technology, consists of one loose tube with 1 to12 fibers. Two FRP rods (Fiber reinforced plastics) guarantee highest tensile performance. The sheath gives the cable good protection against all outdoor environments.

Product Information

1 Primary coated fiber: Silica, acrylate

2 Filling compound: Thixotropic grease

3 Loose tube: PA

4 Slit up yarn

5 Central strength member: Glass fiber reinforced plastic, water swellable

6 Sheath: Polyethylene, halogen-free

Technical Information

Product Color	Black Sheath
Color Code	TIA598
Temperature, Operation [°C]	-40 to +70
Temperature, Storage [°C]	-40 to +70
Temperature, Installation [°C]	-15 to +60
Water Blocking	Longitudinal water blocking according to IEC 60794-1-2-F5B
Fiber Type	G657A1

Attenuation @Wavelength [nm]	1310/1550/1625
Average Attenuation [dB/km]	0.36/0.22/0.25
Maximum Attenuation [dB/km]	0.38/0.25/0.30
Conformance	Longitudinal water blocking according to IEC 60794-1-2-F5B. Mechanical and environmental tests in accordance with IEC 60794-1-2. Fiber parameters and tests according to the IEC series 60793-2 and 60793-1.
Marking	Example of sheath marking, 1 time/meter: "HEXATRONIC A35 yymmddhh GNGLDV 2 G.657.A1 TOL4069013/2C xxxxx m" where yymmddhh = year, month, day and hour of manufacture, xxxxx=running meter marking.
Ordering Information	Supplied lengths: 1, 2, 4, 6 km

Technical Details

TIA-598 Fibers and Tubes	1	2	3	4	5	6	7	8	9	10	11	12
	Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Rose	Aqua
	13	14	15	16	17	18	19	20	21	22	23	24
	Blue |	Orange |	Green |	Brown |	Slate |	White |	Red |	Clear	Yellow |	Violet |	Rose |	Aqua |

TIA 598 Color Code Chart

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Article name	Color	No. of Fibers	Layout	Bend Radius [mm]	Tensile Force, Installation [N]	Crush [N/100 mm]	Dimensions [mm]	Weight [kg/km]
GNGLDV 1 G657A1 TOL4069013/1C	Black	1	1x1	75	1200	6000	6.1 × 3.3	19
GNGLDV 2 G657A1 TOL4069013/2C	Black	2	1x2	75	1200	6000	6.1 × 3.3	19
GNGLDV 4 G657A1 TOL4069013/4C	Black	4	1x4	75	1200	6000	6.1 × 3.3	19