



# Indoor/Outdoor Drop Cable, Extra Protected

**GNGQBDV 1-4 fibers G657A2 StdE**

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## Features

- Excellent indoor/outdoor installation performance
- 1-4 fibers, G657.A2
- Easy to access and identify fibers
- Very good temperature performance
- Diameter optimized to 4.8 mm to be used for cable clamps
- Robust and flexible design
- Halogen-free, fire-resistant sheath

## Application

GNGQBUDV is a fiber optic drop cables for indoor/outdoor FTTx applications.

The drop cable is primarily intended for direct installation, i.e. installation with staples or clips or routing inside cable raceways and mouldings. This installation technique puts extra tough requirements on the cables in terms of bend performance, crush resistance and other mechanical parameters.

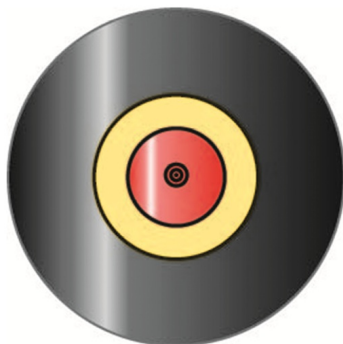
The drop cable has extremely good bend performance due to the G657.A2 fiber and the inbuilt bend restriction of the cable design. The cable will by itself control the minimum bend radius and permit kinking.

## Design

The drop cable is available with 1, 2 or 4 tight coated fibers.

The tight coated fibers allow easy splicing or connector assembly. Aramide yarns around the fibers guarantee the tensile performance. The sheath is made of flame-retardant fire resistant material.

## Product Information



- 1 Primary coated fiber: Silica, acrylate
- 2 Tight secondary coating, PA
- 3 Water blocking aramide yarn
- 4 Sheath: Polyethylene, Halogen free, flame retardant

## Technical Information

<b>Product Color</b>	Black Sheath
<b>Color Code</b>	STDE
<b>Temperature, Operation [°C]</b>	-40 to +70

<b>Temperature, Storage [°C]</b>	-40 to +70
<b>Temperature, Installation [°C]</b>	-15 to +50
<b>Water Blocking</b>	Longitudinal water blocking according to IEC 60794-1-2-F5B
<b>Reaction to Fire</b>	Flame resistance according to IEC 60332-2-24
<b>Fiber Type</b>	G657A2
<b>Attenuation @Wavelength [nm]</b>	1310/1550
<b>Maximum Attenuation [dB/km]</b>	0.40/0.28
<b>Conformance</b>	<p>Longitudinal water blocking according to IEC 60794-1-2-F5B.</p> <p>Mechanical and environmental tests in accordance with IEC 60794-1-2.</p> <p>Flame resistance according to IEC 60332-2-24.</p> <p>Fiber parameters and tests according to the IEC series 60793-2 and 60793-1.</p>
<b>Ordering Information</b>	Supplied lengths: 1 or 2 km

## Technical Details

Std-E Fibers	1	2	3	4	5	6	7	8	9	10	11	12
	Red	Blue	White	Green	Yellow	Grey	Brown	Black	Orange	Violet	Pink	Turquoise
	13	14	15	16	17	18	19	20	21	22	23	24
	Red	Blue	White	Green	Yellow	Grey	Brown	Clear	Orange	Violet	Pink	Turquoise

Std-E Tubes	1	2	3-6				7	8-16				
	Red	Blue	White				Blue	White				

StdE Color Code Chart

## Articles 3

Article name	Color	No. of Fibers	Layout	Bend Radius [mm]	Tensile Force, Installation [N]	Tensile Force, Operation [N]	Crush [N/100 mm]	Diameter Ø [mm]	Weight [kg/km]	Length [m]
<b>GNGQBDV 1 G657A2</b> TOL4063007/1A	Black	1	1x1	20	500	350	5	4.8	20	1000/ 2000/K6
<b>GNGQBDV 2 G657A2</b> TOL4063007/2A	Black	2	2x1	20	500	350	5	4.8	24	1000/ 2000/K6
<b>GNGQBDV 4 G657A2</b> TOL4063007/4A	Black	4	4x1	25	500	350	5	4.8	20	1000/ 2000/K6