



**Product:** [GUCN824](#)

Indoor/Outdoor Central Loose Tube Corrugated Steel Tape armour 24 Fibers  
G.652D/G.657A1-OS2

### Product Description

Universal (Indoor/Outdoor) Corrugated Steel Tape Armour Rodent Protection Central Loose Tube Optical Cable 24 x 9/125-G.652D/G.657A1-OS2 A/I-DQ(ZN)(SR)H

### Technical Specifications

#### Product Overview

Construction Type:	Central Loose Tube
Environmental Space:	Indoor/Outdoor - Euroclass Cca
Suitable Applications:	For outdoor and indoor use in structured (data) wiring systems such as industrial backbone, campus backbone, building backbone (riser) and/or horizontal cabling. For outdoor and indoor use in networks for industrial, telecom, cable TV and/or broadcast. Easy to install in ducts, tunnels and trenches and/or tubes. Suitable for Direct Burial.

#### Construction

##### Fiber Cable Construction

Fiber Type	Fiber Grade acc. ITU-T	Fiber Count	Subunit Color	Subunit Color 2
OS2	G.652D & G.657A1	24	TIA coding (Gxxxxx.T): Natural	Europe coding (Gxxxxx.0): Natural

Fiber Color Coding:	TIA coding (Gxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Violet, Pink, Aqua. With Ringmark: BL, OR, GR, BR, GY, WT, RD, BK, YL, VT, PK, AQ
Fiber Color Coding 2:	Europe coding (Gxxxxx.0): Red, Natural, Yellow, Blue, Green, Violet, Brown, Black, Orange, Aqua, Pink, White. With Ringmark: RD, NA, YL, BL, GR, VT, BR, BK, OR, AQ, PK, WT
Cable Core Water Tight:	Yes
Cable Core Water Blocking:	Waterblocking Glass Yarns + Tape
Bulk Cable Weight:	104 kg/km

#### SubUnit Specifications

Subunit Diameter:	3.3 mm
Subunit Waterblocking:	Gel Filled

#### Jacket Specifications

Number of Jackets:	Single Jacket
Type of Armor:	Corrugated Steel Tape

#### Outer Jacket

##### Outer Jacket Material

Material	Nominal Diameter	Ripcord
LSZH - Low Smoke Zero Halogen (Flame Retardant)	9.0 mm	1

Table Notes: Standard color: Black. Available colors: Black, Orange, Yellow, Turquoise, Erika Violet, Red, Blue, Green, Brown, Violet, Pink, Grey, White, Lime Green

#### Optical Characteristics

Fiber Core Diameter:	9 µm
Max Attenuation at 1310 nm:	0.40 dB/km
Max Attenuation at 1550 nm:	0.24 dB/km
Max Attenuation at 1625 nm:	0.29 dB/km

## Mechanical Characteristics

### Mechanical Tests

Description	Tested Standard	Requirement/Value	According to Family Specification
Cable Min. Bend Radius Installation (Short Term)	IEC 60794-1-21-E6	180 mm	IEC 60794-3-10
Cable Min. Bend Radius Operation (Long Term)	IEC 60794-1-21-E11	180 mm	IEC 60794-3-10
Cable Max. Tensile Strength Installation (Short Term)	IEC 60794-1-21-E1	2220 N (499 lbf)	IEC 60794-3-10
Cable Max. Tensile Strength Operation (Long Term)	IEC 60794-1-21-E1	740 N (166 lbf)	IEC 60794-3-10
Cable Max. Crush Resistance Installation (Short Term)	IEC 60794-1-21-E3	22 kN/m	IEC 60794-3-10
Cable Max. Crush Resistance Operation (Long Term)	IEC 60794-1-21-E3	11 kN/m	IEC 60794-3-10

### Temperature Range

Operating Temp Range:	-30 °C to +55 °C
Installation Temp Range:	-5 °C to +50 °C
Storage Temp Range:	-30 °C to +55 °C

### Standards

UL Rating/Flame Test:	Non-UL Rated
IEC Flammability:	IEC 60332-1-2
Resistance to Fire - Circuit Integrity:	IEC 60331-25-E120 / EN 50200-PH120 ANNEX E
IEC 60754-1 (EN50267-1)- Halogen Amount:	Zero
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Max. Conductivity:	10 µS/mm
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Min. pH:	4.3
IEC 61034-2 (EN 61034-2) (VDE 0482-1034) - Smoke Density Min. Transmittance:	80%
CPR Euroclass:	Cca-s1a,d1,a1
REACH:	Compliant
IEC Compliance:	IEC 60794
EU Directive 2011/65/EU (ROHS II):	Compliant
UV/ Sunlight Protection:	yes

### Part Number

#### Variants

Item #	Color	Length
GUCN824.002100	Black	2,100 m
GUCN824.003100	Black	3,100 m
GUCN824.004100	Black	4,100 m
GUCN824.022100	Yellow	2,100 m

### History

Update and Revision:	Revision Number: 0.73 Revision Date: 01-04-2021
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