



**Product:** [GCDD824](#)

Indoor/Outdoor Loose Tube Corrugated Steel Tape armour 24 Fibers  
G652D/G657A1-OS2

**Product Description**  
Universal (Indoor/Outdoor) Dry Core Corrugated Steel Tape Armour Rodent Protection Double Jacket Multi Loose Tube Optical Cable 24 x 9/125-G652D/G657A1-OS2 A/I-DQ(ZN)H(SR)H

**Technical Specifications**

**Product Overview**

Construction Type:	Multi Loose Tube
Environmental Space:	Indoor/Outdoor - Euroclass Dca
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
OS2	G652D & G657A1	24	TIA coding (Gxxxxxx.T): Blue, Orange
Fiber Color Coding:	TIA coding (Gxxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Violet, Pink, Aqua		
Central Strength Member:	GRP		
Cable Core Water Tight:	Yes		
Cable Core Waterblocking:	Waterblocking Aramid Yarns + Tape		
Bulk Cable Weight:	259 kg/km		

**SubUnit Specifications**

Number of Active Subunits:	2
Number of Subunit Positions:	6
Fibers Per Subunit:	12
Subunit Diameter:	0.098 in (2.5 mm)
Subunit Waterblocking:	Gel Filled

**Jacket Specifications**

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

**Inner Jacket**

Nom. Diameter:	10.5 mm
Material:	LSZH - Low Smoke Zero Halogen (Flame Retardant)

**Outer Jacket Specifications**

**Outer Jacket**

Material	Nominal Diameter	Nominal Wall Thickness	Ripcord
LSZH - Low Smoke Zero Halogen (Flame Retardant)	15.2 mm	1.5 mm	Yes

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

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	304 mm	IEC 60794-3-10
Cable Min. Bend Radius Operation (Long Term)	IEC 60794-1-21-E11	304 mm	IEC 60794-3-10
Cable Max. Tensile Strength Installation (Short Term)	IEC 60794-1-21-E1	2300 N (517 lbf)	IEC 60794-3-10
Cable Max. Tensile Strength Operation (Long Term)	IEC 60794-1-21-E1	750 N (169 lbf)	IEC 60794-3-10
Cable Max. Crush Resistance Installation (Short Term)	IEC 60794-1-21-E3	22 kN/m	
Cable Max. Crush Resistance Operation (Long Term)	IEC 60794-1-21-E3	11 kN/m	IEC 60794-3-10

Temperature Range

Operating Temperature Range:	-30 °C to +70 °C
Installation Temperature Range:	-5 °C to +50 °C
Storage Temperature Range:	-30 °C to +70 °C

Standards

UL Rating/Flame Test:	Non-UL Rated
IEC Flammability:	IEC 60332-1-2
Reaction to Fire - Bundle Flame Test:	IEC 60332-3-22
CPR Euroclass:	Dca-s1,d1,a1
REACH:	Compliant
ISO/IEC Compliance:	IEC 60794
EU Directive 2011/65/EU (RoHS 2):	Compliant
UV/ Sunlight Protection:	Yes

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	EAN
GCDD824.002100	Black	Reel	2,100 m	8719605072474
GCDD824.004100	Black	Reel	4,100 m	8719605072481

History

Update and Revision:	Revision Number: 0.115 Revision Date: 12-19-2022
----------------------	--

© 2023 Belden, Inc  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.