



**Part Number:** GIBTA08

Indoor Breakout 08 Fibers G657A1-OS2

**Product Description**

Indoor Breakout Tight Optical Cable 08 x 9/125-G657A1-OS2 I-V(ZN)HH

**Technical Specifications**

|                    |          |
|--------------------|----------|
| Construction Type: | Breakout |
|--------------------|----------|

**Product Overview**

|                        |   |
|------------------------|---|
| Environmental Space:   | Indoor - Euroclass Dca  |
| Suitable Applications: | Structured (premises) wiring systems: building backbone (riser) and/or horizontal cabling (Fibre To The Desk). Support all computer network applications such as FDDI, Gigabit Ethernet and ATM Easy to install in ducts, tunnels and trenches. |

**Construction**

**Fiber Cable Construction**

| Fiber Type | Fiber Grade acc. ITU-T | Fiber Count |
|------------|------------------------|-------------|
| OS2        | G657A1                 | 8           |

|                       |                                  |
|-----------------------|----------------------------------|
| Fiber Color Coding:   | TIA coding (Gxxxxx.T): Blue      |
| Fiber Color Coding 2: | Europe coding (Gxxxxx.0): Yellow |

**Buffer Specification**

| Fiber Type | Buffer Construction | Buffer Material               | Buffer Diameter |
|------------|---------------------|-------------------------------|-----------------|
| OS2        | Tight               | LSZH - Low Smoke Zero Halogen | 0.9 mm          |

|                          |                                   |
|--------------------------|-----------------------------------|
| Central Strength Member: | Aramid / E-Glass (central member) |
| Cable Core Water Tight:  | Yes                               |
| Bulk Cable Weight:       | 81 kg/km                          |

**SubUnit Specifications**

|                              |                            |
|------------------------------|----------------------------|
| Number of Active Subunits:   | 8                          |
| Number of Subunit Positions: | 8                          |
| Fibers Per Subunit:          | 1                          |
| SubUnit Diameter:            | 2.1 mm                     |
| SubUnit Waterblocking:       | Waterblocking Aramid Yarns |

**Jacket Specifications**

|                    |               |
|--------------------|---------------|
| Number of Jackets: | Single Jacket |
| Type of Armor:     | Non-Armored   |

**Outer Jacket Material**

| Material                      | Nominal Diameter | Ripcord |
|-------------------------------|------------------|---------|
| LSZH - Low Smoke Zero Halogen | 9.4 mm           | 1       |

**Optical Characteristics**

|                             |            |
|-----------------------------|------------|
| Fiber Core Diameter:        | 9 µm       |
| Max Attenuation at 1310 nm: | 0.39 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  | 188 mm            | IEC 60794-2-20                    |
| Cable Min. Bend Radius Operation (Long Term)          | IEC 60794-1-21-E11 | 94 mm             | IEC 60794-2-20                    |
| Cable Max. Tensile Strength Operation (Long Term)     | IEC 60794-1-21-E1  | 770 N (173 lbf)   |                                   |
| Cable Max. Crush Resistance Installation (Short Term) | IEC 60794-1-21-E3  | 5 kN/m            | IEC 60794-2-20                    |
| Cable Max. Crush Resistance Operation (Long Term)     | IEC 60794-1-21-E3  | 3 kN/m            | IEC 60794-2-20                    |

### Temperature Range

|                          |                  |
|--------------------------|------------------|
| Operating Temp Range:    | -5 °C to +55 °C  |
| Installation Temp Range: | -5 °C to +50 °C  |
| Storage Temp Range:      | -30 °C to +70 °C |

### Standards

|                                       |                |
|---------------------------------------|----------------|
| UL Rating/Flame Test:                 | Non-UL Rated   |
| ISO/IEC Flammability:                 | IEC 60332-1-2  |
| Reaction to Fire - Bundle Flame Test: | IEC 60332-3-24 |
| CPR Euroclass:                        | Dca-s1,d1,a1   |
| REACH:                                | Compliant      |
| ISO/IEC Compliance:                   | IEC 60794      |
| EU Directive 2011/65/EU (ROHS II):    | Compliant      |
| UV/ Sunlight Protection:              | yes            |

### History

#### Variants

| Item #         | Color  | Length  |
|----------------|--------|---------|
| GIBTA08.012100 | Yellow | 2,100 m |

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