Fiber-optic & hybrid cables

GIMTBD12 12F OM3 LSZH B2ca

GIMTBD12 12-fiber OM3 Tight-Buffered LSZH B2ca Optical Cable

ISO/IEC 11801 OM3 / EN 50575 B2ca · Optical OM3 50/125 µm · −20...+70 °C · Min. bend 10 × OD

ISO/IEC 11801 OM3 / EN 50575 B2ca | OM3 50/125 µm



Application

IEC 60794-2-20 / EN 50575 B2ca-s1a,d1,a1 (-20 to +70 °C) 12-fiber OM3 50/125 µm multimode 0.9 mm tight-buffered orange halogen-free LSZH indoor distribution optical cable.

Typical uses: Industrial automation & control cabinets, Inverter-fed motor drive systems, Process instrumentation & oil/gas skids, Machine tools & robotic cells, Data centers, stadiums & broadcast facilities

Construction





Cross-section, not to scale

1	12× OM3 50/125 µm Multimode Fibers	Laser-Optimized 850 nm 10G/40G/100G Optical Cores
2	900 µm (0.9mm) Color-Coded Tight Buffers	TIA-598-D 12-Color LSZH Secondary Tight Coating
3	High-Modulus Aramid Yarn Strength Member	All-Dielectric Tensile Reinforcing Yarns (400 N)
4	Orange LSZH Flame-Retardant Outer Jacket	Orange CPR Euroclass B2ca-s1a,d1,a1 LSZH Sheath (7.3 mm OD)

Technical data

Typical values

Operating temperature range	−20…+70 °C	Installation temperature range	-5 °C to +50 °C
Flame & fire performance	EN 50575 CPR Euroclass B2ca-s1a,d1,a1 · IEC 60332-1-2 · IEC 61034-2	Minimum bending radius	10 × OD
Tensile & crush resistance	400–600 N short-term tensile · 1,000 N/100 mm crush (IEC 60794-1-21)	Outer sheath material & colour	Orange CPR Euroclass B2ca-s1a,d1,a1 LSZH Sheath (7.3 mm OD)
Fiber category & core/cladding	ISO/IEC 11801 OM3 laser-optimized multimode · 50/125 µm	Maximum attenuation (850 / 1300 nm)	≤ 2.9 dB/km @ 850 nm · ≤ 0.8 dB/km @ 1300 nm
Modal bandwidth (EMB / OFL)	≥ 2,000 MHz·km EMB @ 850 nm · ≥ 1,500 / 500 MHz·km OFL @ 850 / 1300 nm	Standards	IEC 60794-2-20 / ISO/IEC 11801 OM3 / ITU-T G.651.1 / EN 50575 B2ca-s1a,d1,a1 / IEC 60332-3-24

Sizes

3 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Part designation	Configuration	Fiber & buffer construction	Insulation / wall	Outer sheath	Outer diameter mm	Min. bend radius mm	Max. attenuation @ 850 nm dB/km	Max. tensile load N	Cable weight kg/km	Key electrical / optical rati
GIMTBD12 12F OM3 LSZH B2ca 3 sizes										
☐ GIMTBD06 6F OM3 50/125 µm LSZH B2ca	6 × 50/125 µm OM3 (0.9 mm Tight Buffer)	TIA-598-D Tight Buffer + Aramid Yarn + Orange LSZH	TIA-598-D 12-Color LSZH Secondary Tight Coating	LSZH Jacket	5.8	58	2.90	400	32	≤ 2.9 / 0.9 dB/km @ 850/13
☐ GIMTBD12 12F OM3 50/125 µm LSZH B2ca	12 × 50/125 µm OM3 (0.9 mm Tight Buffer)	TIA-598-D Tight Buffer + Aramid Yarn + Orange LSZH	TIA-598-D 12-Color LSZH Secondary Tight Coating	LSZH Jacket	7.3	73	2.90	400	45	≤ 2.9 / 0.9 dB/km @ 850/13
☐ GIMTBD24 24F OM3 50/125 µm LSZH B2ca	24 × 50/125 µm OM3 (0.9 mm Tight Buffer)	TIA-598-D Tight Buffer + Aramid Yarn + Orange LSZH	TIA-598-D 12-Color LSZH Secondary Tight Coating	LSZH Jacket	8.8	88	2.90	600	68	≤ 2.9 / 0.9 dB/km @ 850/13

– Dimensions and weights are nominal manufacturing targets subject to standard production tolerances.

Standards and approvals

- ISO/IEC 11801 OM3 / EN 50575 B2ca Compliant
- EN 10204 3.1 Factory Test Certificate
- CE, RoHS 2 (2011/65/EU) & REACH

Certifications

Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone **+86 185 9591 3361**

Email **info@tebaoflex.com**

Web **tebaoflex.com/cables/gimtbd12-12-fiber-om3-tight-buffered-lszh-b2ca-optical-cable**

Typical values for this cable type, based on Reference specification per ISO/IEC 11801 OM3 / EN 50575 B2ca (GIMTBD12 12F OM3 LSZH B2ca). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.