

# Gel-Free Loose Tube Fiber Optic Cables

Gel-free fiber, built to perform

Product Bulletin



Make better connections with Belden's Gel-Free Loose Tube Fiber Optic Cables. These cables feature a compact, resilient design for robust connectivity while eliminating the hassle of messy gel compounds.

- **Ease of implementation:** mess-free install, plus simpler handling, splicing and termination – no clean-up required.
- **Enhanced durability:** dry blocking materials to prevent water ingress, ensuring a more stable cable structure and no complications from gel leakage.
- **Interoperability:** compatible with standard network products to meet the needs of a wide range of enterprise and industrial environments.

## Key Features

- Compact loose tube design with excellent protection against environmental and mechanical stress.
- Wide fiber compatibility for single-mode, multi-mode and specialty fiber types.
- Multiple jacket options: Polyethylene (PE) for outdoor durability, low smoke zero halogen (LSZH) for flame-retardant indoor/outdoor use.
- Flexible armoring choices for different installation environments and protection requirements.
- Water-blocking elements for long-term reliability in wet and damp settings.
- UV and weather resistant for use in a range of environmental conditions.



Get clean installation, strong moisture protection and long-term reliability, without the mess or maintenance of gel. Belden's Gel-Free Loose Tube Fiber Optic Cables are a smart, efficient solution for demanding network environments.

## Your benefits

Gel-Free Loose Tube Fiber Optic Cables are the smarter, cleaner choice for modern fiber optic network deployments. No gel means faster installation, easy cleanup and zero risk of contaminating fiber or splicing equipment. Dry water-blocking technology delivers top-tier moisture defense without worries about gel leakage or the environmental impacts of petroleum-based gels.

Light, tough and built to last, these cables offer strong resistance to high temperatures and harsh conditions. In indoor/outdoor and outdoor settings, gel-free fiber cables are the no-compromise solution for seamless connections that unlock untold possibilities.

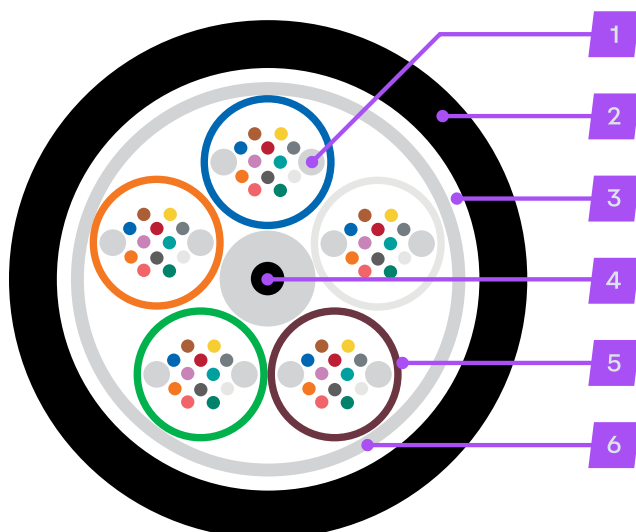
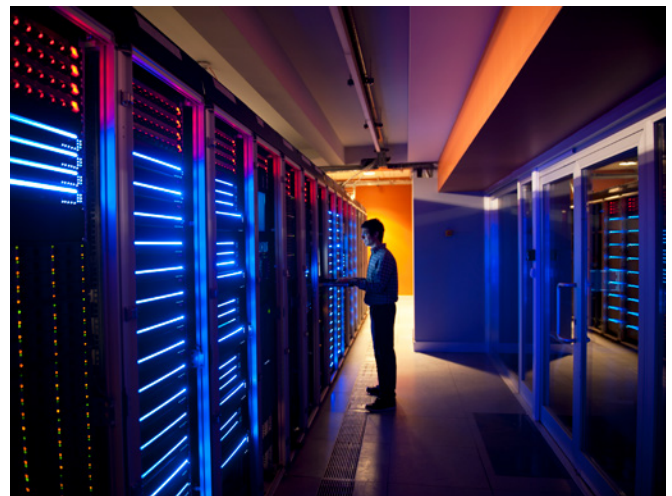
## Applications

Belden's Gel-Free Loose Tube Fiber Optic Cables are a versatile choice for indoor, indoor/outdoor, underground and aerial installations. Commonly used in fiber to the home (FTTH) and fiber to the premises (FTTP) applications, these cables also support utility infrastructure, industrial networks and high-density data centers where gel leakage is a concern. Their weatherproof design suits long-distance transmission lines. Easier to install and maintain than gel-filled options, these cables are mess-free, resilient and environmentally friendly – ideal for modern, high-performance fiber optic networks.

## Markets

Gel-Free Loose Tube Fiber Optic Cables deliver high-performance connectivity across the broadband and telecommunications, broadcast and chemical sectors. They're ideal for commercial real estate, data centers, and food and beverage operations where reliability is key.

Healthcare and hospitality benefit from their durability, while intelligent traffic systems and mass transit rely on their real-time performance. Additionally, they support mission-critical needs in material handling, oil and gas, power transmission and distribution, stadiums and venues and waste/wastewater operations.



- 1 Moisture Blocking Agent<sup>1</sup>
- 2 Outer Jacket
- 3 Glass Yarns Strength Members
- 4 Central Strength Member
- 5 Buffer Tube
- 6 Waterblocking Tape

<sup>1</sup>Our design incorporates two or more water blocking yarns located between the outside of the fiber bundle and the inner wall of the loose tube, but not within the fiber bundle itself so as to protect the outside of the fiber bundle, and thus prevent water penetration along the length of the loose-tube.



## Central Loose Tube Fiber Cable

PRODUCT CODE	# TUBES	OUTSIDE PLANT (OSP) GEL-FREE
GOSMxyy	1 TUBE	Single-Jacket All-Dielectric Rodent Protection (1.5kN) Outdoor - Gel-Free Loose Tubes
GORMxyy	1 TUBE	Single-Jacket All-Dielectric Rodent Protection (3.15kN) Outdoor - Gel-Free Loose Tubes
GOVMxyy	1 TUBE	Single-Jacket All-Dielectric Rodent Protection (4.5kN) Outdoor - Gel-Free Loose Tubes
GOCMxyy	1 TUBE	Single-Jacket Armored (CST) Outdoor - Gel-Free Loose Tubes
GOWMxyy	1 TUBE	Double-Jacket Armored (Steel Wire) Outdoor - Gel-Free Loose Tubes
PRODUCT CODE	# TUBES	INDOOR/OUTDOOR GEL-FREE
GQSMxyy	1 TUBE	Single-Jacket All-Dielectric Rodent Protection (1.5kN) Indoor/Outdoor LSZH - Gel-Free Loose Tubes
GUSMCxyy	1 TUBE	Single-Jacket All-Dielectric Rodent Protection (1.5kN) Indoor/Outdoor LSZH - CPR: Cca - Gel-Free Loose Tubes
GUSMBxyy	1 TUBE	Single-Jacket All-Dielectric Rodent Protection (1.5kN) Indoor/Outdoor LSZH - CPR: B2ca - Gel-Free Loose Tubes
GQRMxyy	1 TUBE	Single-Jacket All-Dielectric Rodent Protection (3.15kN) Indoor/Outdoor LSZH - Gel-Free Loose Tubes
GURMCxyy	1 TUBE	Single-Jacket All-Dielectric Rodent Protection (3.15kN) Indoor/Outdoor LSZH - CPR: Cca - Gel-Free Loose Tubes
GURMBxyy	1 TUBE	Single-Jacket All-Dielectric Rodent Protection (3.15kN) Indoor/Outdoor LSZH - CPR: B2ca - Gel-Free Loose Tubes
GQVMxyy	1 TUBE	Single-Jacket All-Dielectric Rodent Protection (4.5kN) Indoor/Outdoor LSZH - Gel-Free Loose Tubes
GQCMxyy	1 TUBE	Single-Jacket Armored (CST) Indoor/Outdoor LSZH - Gel-Free Loose Tubes
GUCMCxyy	1 TUBE	Single-Jacket Armored (CST) Indoor/Outdoor LSZH - CPR: Cca - Gel-Free Loose Tubes
GUCMBxyy	1 TUBE	Single-Jacket Armored (CST) Indoor/Outdoor LSZH - CPR: B2ca - Gel-Free Loose Tubes
GQDMxyy	1 TUBE	Double-Jacket Armored (CST) Indoor/Outdoor LSZH - Gel-Free Loose Tubes
GUDMBxyy	1 TUBE	Double-Jacket Armored (CST) Indoor/Outdoor LSZH - CPR: B2ca - Gel-Free Loose Tubes
GQWMxyy	1 TUBE	Double-Jacket Armored (Steel Wire) Indoor/Outdoor LSZH - Gel-Free Loose Tubes

x = stands for the fiber type  
yy = stands for the fiber count



Multi-Loose Tube Fiber Cable

PRODUCT CODE	# TUBES	OUTSIDE PLANT (OSP) GEL-FREE
GBROxyy	6 TUBES	Single-Jacket All-Dielectric Rodent Protection Outdoor - Gel-Free Loose Tubes
GBRQxyy	8 TUBES	
GBRUxyy	12 TUBES	
GBCOxyy	6 TUBES	Single-Jacket Armored (CST) Outdoor - Gel-Free Loose Tubes
GBCQxyy	8 TUBES	
GBCUxyy	12 TUBES	
GBWOxyy	6 TUBES	Double-Jacket Armored (Steel Wire) Outdoor - Gel-Free Loose Tubes
GBWQxyy	8 TUBES	
GBWUxyy	12 TUBES	
PRODUCT CODE	# TUBES	INDOOR/OUTDOOR GEL-FREE
GCROxyy	6 TUBES	Single-Jacket All-Dielectric Rodent Protection Indoor/Outdoor LSZH - Gel-Free Loose Tubes
GCRQxyy	8 TUBES	
GCRUxyy	12 TUBES	
GCROCxyy	6 TUBES	Single-Jacket All-Dielectric Rodent Protection Indoor/Outdoor LSZH - CPR: Cca - Gel-Free Loose Tubes
GCRQCxyy	8 TUBES	
GCRUCxyy	12 TUBES	
GCRQBxyy	8 TUBES	Single-Jacket All-Dielectric Rodent Protection Indoor/Outdoor LSZH - CPR: B2ca - Gel-Free Loose Tubes
GCRUBxyy	12 TUBES	
GCCOxyy	6 TUBES	
GCCQxyy	8 TUBES	Single-Jacket Armored (CST) Indoor/Outdoor LSZH - Gel-Free Loose Tubes
GCCUxyy	12 TUBES	
GCCOCxyy	6 TUBES	Single-Jacket Armored (CST) Indoor/Outdoor LSZH - CPR: Cca - Gel-Free Loose Tubes
GCCQCxyy	8 TUBES	
GCCUCxyy	12 TUBES	
GCCQBxyy	8 TUBES	Single-Jacket Armored (CST) Indoor/Outdoor LSZH - CPR: B2ca - Gel-Free Loose Tubes
GCCUBxyy	12 TUBES	
GCWOxyy	6 TUBES	Double-Jacket Armored (Steel Wire) Indoor/Outdoor LSZH - Gel-Free Loose Tubes
GCWQxyy	8 TUBES	
GCWUxyy	12 TUBES	
GCWOCxyy	6 TUBES	Double-Jacket Armored (Steel Wire) Indoor/Outdoor LSZH - CPR: Cca - Gel-Free Loose Tubes
GCWQCxyy	8 TUBES	
GCWUCxyy	12 TUBES	
GCWQBxyy	8 TUBES	Double-Jacket Armored (Steel Wire) Indoor/Outdoor LSZH - CPR: B2ca - Gel-Free Loose Tubes
GCWUBxyy	12 TUBES	

x = stands for the fiber type  
yy = stands for the fiber count



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