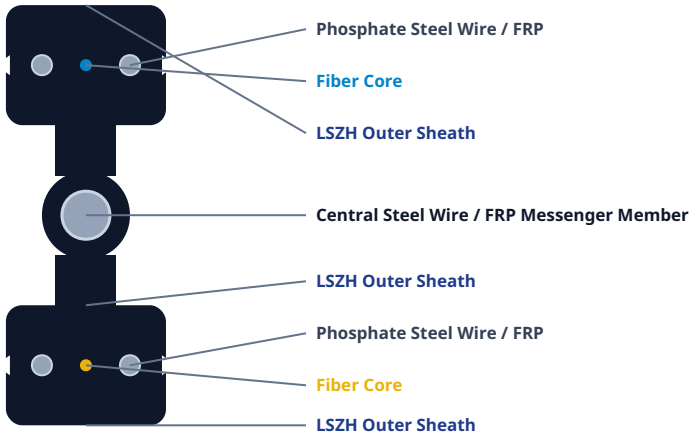
Self-supporting Parallel Drop Optical Cable (GJYBXCH / GJYFBXCH)

Self-supporting Parallel Bow-Type Drop Fiber Cable Technical Datasheet

Product Description

The **GJYBXCH / GJYFBXCH self-supporting parallel drop optical cable** is composed of two upper and lower bow-type optical cable units with identical structures, combined with a central round strength member element. The upper and lower bow-type units contain central optical fibers with two parallel steel wires placed on both sides as strength members (or non-metallic FRP strength members for GJYFBXCH). The entire cable is extruded with a Low Smoke Zero Halogen (LSZH) flame-retardant outer sheath.

Cable Cross-Section & Structural Diagram



Product Features

Compact, Lightweight & Practical Structure

Small outer diameter, lightweight, simple structure, and strong practical usability for easy handling and aerial installation.

Grooved Design for Easy Separation

Features a grooved outer jacket design, making it convenient to strip and separate units to simplify splicing and maintenance.

Special Bend-Insensitive Fiber

Special bend-insensitive optical fiber provides expanded bandwidth and outstanding communication transmission characteristics.

Low Smoke Zero Halogen (LSZH) Outer Sheath

Flame-retardant LSZH outer sheath with a smooth surface, highly eco-friendly, odorless, and safe for indoor/outdoor subscriber links.

Lateral Stress Absorbed by Strength Members

Lateral mechanical stress is predominantly absorbed by the strength members. Two parallel FRP/steel members deliver high crush resistance to protect fibers.

Self-Supporting Aerial Deployment

Central messenger wire provides self-supporting capability for direct overhead span drop installations.

Technical Specifications

Cable Model	Fiber Count	Cable Dimensions (mm)	Cable Weight (kg/km)	Allowable Tensile Force (N)		Allowable Crush Resistance (N/100mm)		Bending Radius (mm)	
				Long-Term	Short-Term	Long-Term	Short-Term	Static	Dynamic
GJYBXCH	2	8.0 × 2.0 ± 0.1	21	300	600	1000	2200	20D	40D
GJYBXCH	4	8.0 × 2.0 ± 0.1	21	300	600	1000	2200	20D	40D
GJYBXCH	6	8.0 × 2.0 ± 0.1	21	300	600	1000	2200	20D	40D
GJYFBXCH	2	8.0 × 2.0 ± 0.1	20	300	600	1000	2200	20D	40D
GJYFBXCH	4	8.0 × 2.0 ± 0.1	20	300	600	1000	2200	20D	40D

Cable Model	Fiber Count	Cable Dimensions (mm)	Cable Weight (kg/km)	Allowable Tensile Force (N)		Allowable Crush Resistance (N/100mm)		Bending Radius (mm)	
				Long-Term	Short-Term	Long-Term	Short-Term	Static	Dynamic
GJYFBXCH	6	8.0 × 2.0 ± 0.1	20	300	600	1000	2200	20D	40D

Note: The above data is for reference only; Cable storage and operating temperature range: -40°C to +70°C.