



# Pactech Multicore Fiber Optic Cables Catalog

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If you are ready to order or have a question, please go to  
<http://pactech-inc.com/contact>



## Our Story

Founded in 1994 in the Silicon Valley, Pactech started out providing custom data cables and wire harnesses for computer systems. As the rapid growth and evolution of the Internet, cloud computing, networking, and data storage over the last two decades, our business has quickly advanced to become a leading cable and cabling provider for systems, data centers, buildings, and infrastructures.

Our mission is to deliver customers comprehensive cable offerings through innovative engineering, quality manufacturing, and supply chain efficiency. We serve a broad range of customers: cloud/service providers, high tech, manufacturing, transportation, utility, medical, and clean tech. Our reach of customers is beyond North America and includes Asia Pacific, Europe, and Latin America.



## Our Value Propositions

With over 20 years of experience, Pactech has won the mindshare of our customers with these competitive advantages:

### Custom Engineering

We work closely with you to achieve the best designs possible to give you a leading edge. We review your current design and offer recommendations to help improve performance and reduce costs.

### Quality Manufacturing

With our in-house R&D facility, we are able to design and manufacture first articles for prototyping and new product introduction (NPI) projects with a quick turnaround. We have a well established ecosystem of manufacturing partners so that our products meet or exceed requirements specified by customers and industry standards. Here is a sample list of certifications and compliances our ecosystem partners meet:

- **Manufacturing Practice:** ISO 9001, ISO 13485
- **Environment:** ISO 4001, REACH, ROHS, UL Environment

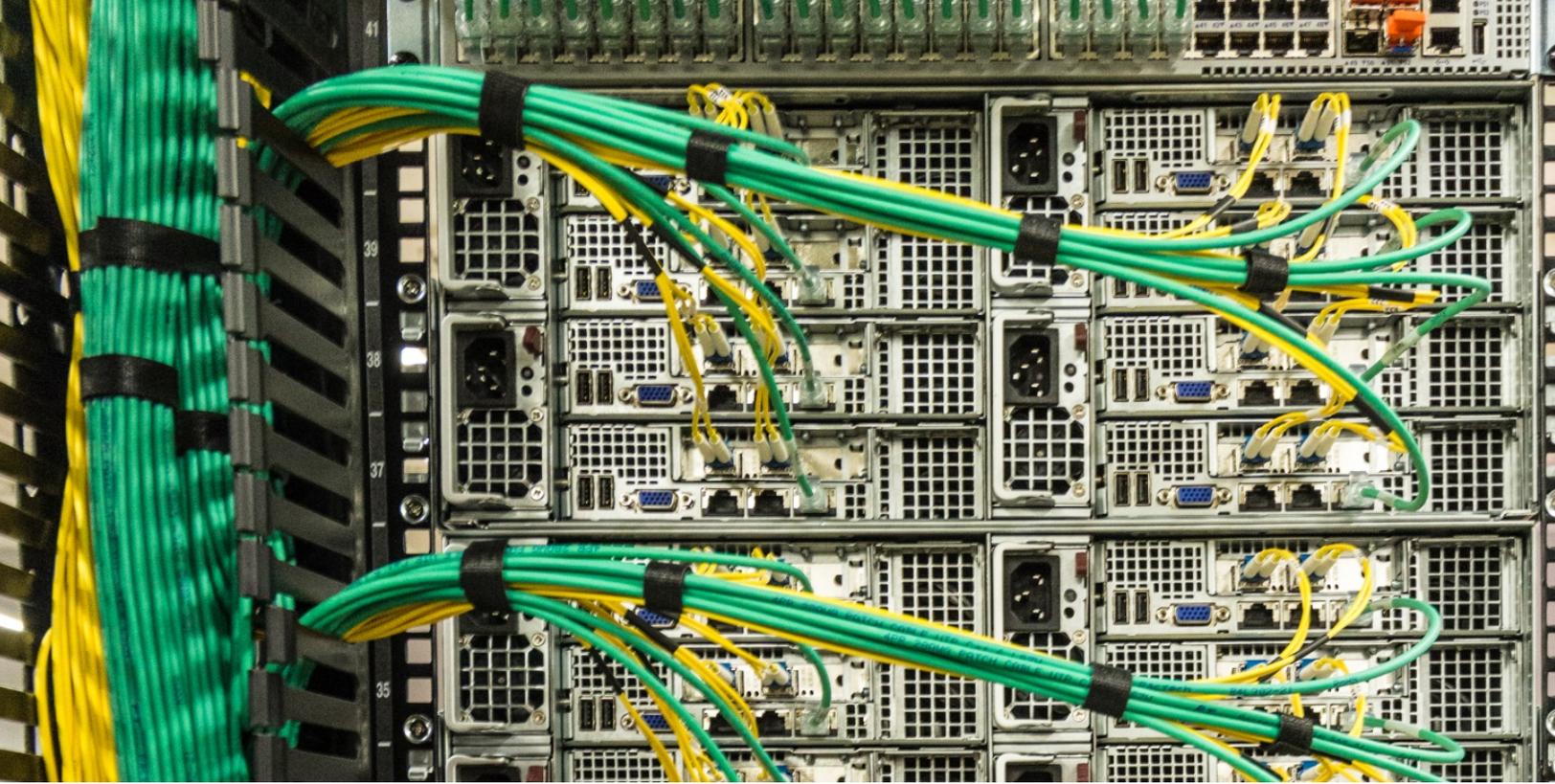
- **Products:** UL 444 for Communication Cable; UL 1651 and CSA 22.2 No.232-09 for Optical Fiber Cable, CSA 22.2; BS 1363 and IEC for Power Cord



As your trusted business partner, we work closely with your technical team to ensure the transition from prototype to full production will be seamless.

### Customer-focused Service and Support

We understand what our customers care about. We take pride in our quick turnaround, tight quality control, prompt delivery, and effective resource management to win the heart of our customers. Our products come with warranties up to 25 years.



## Our Portfolio

We proudly offer cable and cabling products for three major solutions:

Data Center Cable Solutions	FTTx Solutions	In-Server Cable Solutions
Fiber optic cables	Drop cables	SAS/SATA
DAC cables	Outdoor cables	Wire harnesses
CAT7/6A/6/5E	Indoor cables	USB cables
Power cables	Cable adapters	Display cables
In-rack cable bundling & labeling services	GPON/EPON	Ribbon cables
CCTV cables	Fiber plastic boxes	
Cable management & patch panels	Fiber patch panels	
Cable accessories	Fast installable connectors (FICs)	
	Fiber accessories	

# Stranded Loose Tube Optical Fiber Cables

# Stranded Loose Tube Optical Fiber Cables

## Description

- Protecting the primary coating optical fibers within loose tube
- Loose tube stranded around the strength member
- Strength member in the center of optical fiber cable

## Features

- Adopting "SZ" reverse oscillating stranding method
- Water-resistance for the whole cross-section by filling water-blocking gel in every single process
- Steel or aluminum tape with overlap provides stability, high strength and no deformation after torsion
- Stable control of optical fiber excess length
- Additional loss of optical fiber is close to zero and no dispersion value change after cabling
- Good environmental performance with applicable temperature range from -40 to +70 Celsius
- Available for aerial, duct, direct-burial installation

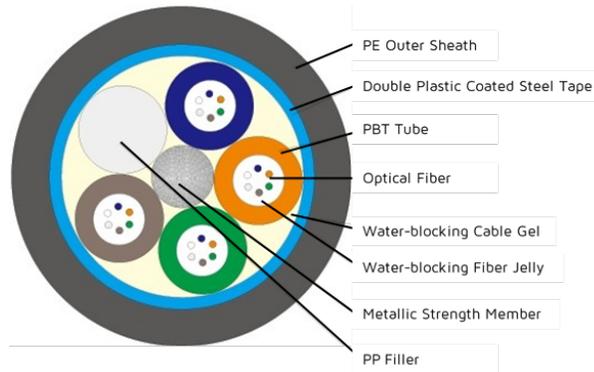
# Aerial Optical Fiber Cables – GYTS 2-432 Cores

## Installation

- Aerial
- Duct

## Structural Features

- Metallic central strength member (phosphate coated steel wire)
- Double plastic coated corrugated steel tape – PE bonded outer sheath

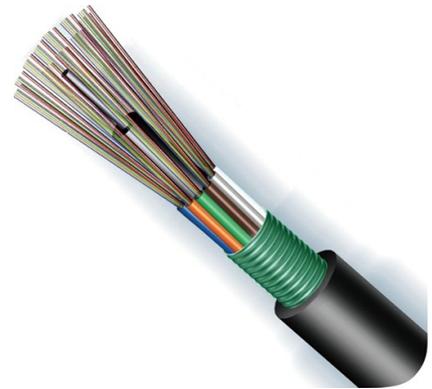


## Performance Characteristics

- Excellent crush resistance with steel tape armor
- Sound bulletproof performance

## Applications

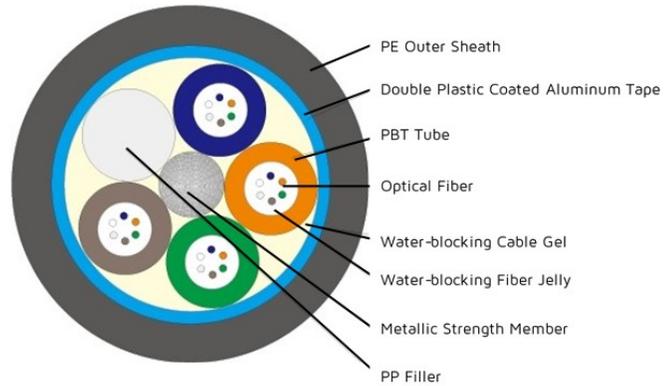
- Long-haul communication
- Communication between stations



## Technical Parameters

Cable Cores	Overall Diameter of Cable (mm)	Cable Weight (kg/km)	Minimum Bending Radius		Tension Allowed (N)		Crush Resistance (N/100mm)	
			Static	Dynamic	Short Term	Long Term	Short Term	Long Term
2-30	9.8	115	10 times O.D.	20 times O.D.	1500	600	1000	300
32-36	10.6	140						
38-60	11.0	140						
62-72	11.6	165						
74-96	13.2	205						
98-120	14.7	245						
122-144	16.1	285						
146-216	16.6	300						
218-240	19.8	395						
242-288	22.0	470						
290-432	22.4	495						

# Duct Optical Fiber Cables – GYTA 2-432 Cores



## Installation

- Aerial
- Duct

## Structural Features

- Metallic central strength member (phosphate coated steel wire)
- Double plastic coated aluminum tape – PE bonded outer sheath

## Performance Characteristics

- Excellent water resistance

## Applications

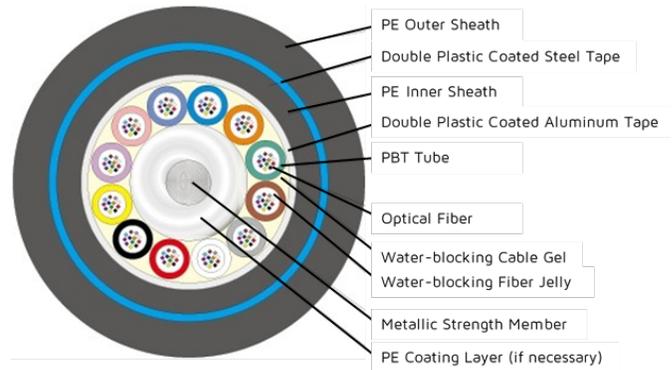
- Long-haul communication
- Communication between stations



## Technical Parameters

Cable Cores	Overall Diameter of Cable (mm)	Cable Weight (kg/km)	Minimum Bending Radius		Tension Allowed (N)		Crush Resistance (N/100mm)	
			Static	Dynamic	Short Term	Long Term	Short Term	Long Term
2-30	9.8	95	10 times O.D.	20 times O.D.	1500	600	1000	300
32-36	10.3	115						
38-60	10.7	115						
62-72	11.3	140						
74-96	12.9	175						
98-120	14.4	210						
122-144	15.8	245						
146-216	16.3	260						
218-240	19.5	345						
242-288	21.7	415						
290-432	22.1	435						

# Direct-Burial Optical Fiber Cables – GYTA53 2-288 Cores



## Installation

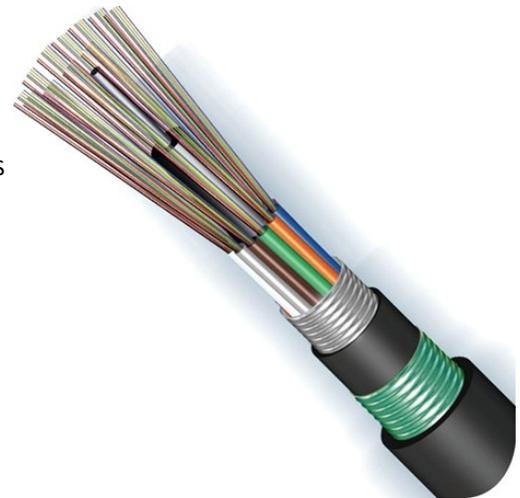
- Direct burial

## Structural Features

- Metallic central strength member (phosphate coated steel wire)
- Double plastic coated aluminum tape - PE bonded inner sheath
- Double plastic coated corrugated steel tape - PE bonded outer sheath

## Performance Characteristics

- Excellent water resistance
- Crush resistant with double armored protective layers
- Effective rodent damage prevention



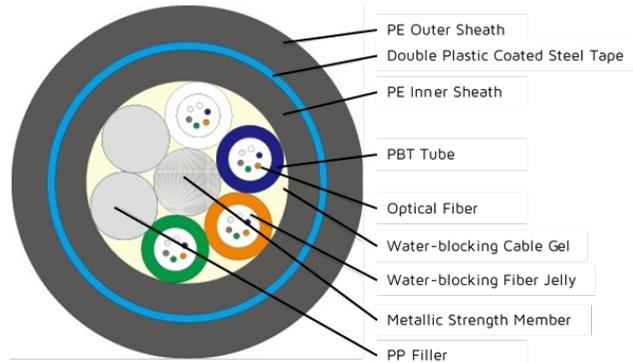
## Applications

- Long-haul communication
- Communication between stations

## Technical Parameters

Cable Cores	Overall Diameter of Cable (mm)	Cable Weight (kg/km)	Minimum Bending Radius		Tension Allowed (N)		Crush Resistance (N/100mm)	
			Static	Dynamic	Short Term	Long Term	Short Term	Long Term
2-30	13.3	210	12.5 times O.D.	25 times O.D.	3000	1000	3000	1000
32-36	13.6	220						
38-60	14.1	225						
62-72	14.6	255						
74-96	16.2	305						
98-120	17.7	350						
122-144	19.1	395						
146-216	19.6	420						
218-240	22.8	530						
242-288	25.0	620						

# Direct-Burial Optical Fiber Cables – GYTY53 2-288 Cores



## Installation

- Direct burial

## Structural Features

- Metallic central strength member (phosphate coated steel wire)
- Double plastic coated corrugated steel tape - PE bonded outer sheath

## Performance Characteristics

- Crush resistant
- Effective rodent damage prevention

## Applications

- Long-haul communication
- Communication between stations



## Technical Parameters

Cable Cores	Overall Diameter of Cable (mm)	Cable Weight (kg/km)	Minimum Bending Radius		Tension Allowed (N)		Crush Resistance (N/100mm)	
			Static	Dynamic	Short Term	Long Term	Short Term	Long Term
2-30	12.6	185	12.5 times O.D.	25 times O.D.	3000	1000	3000	1000
32-36	12.9	195						
38-60	13.4	200						
62-72	13.9	230						
74-96	15.5	275						
98-120	17.0	320						
122-144	18.4	365						
146-216	18.9	385						
218-240	22.1	395						
242-288	24.3	580						

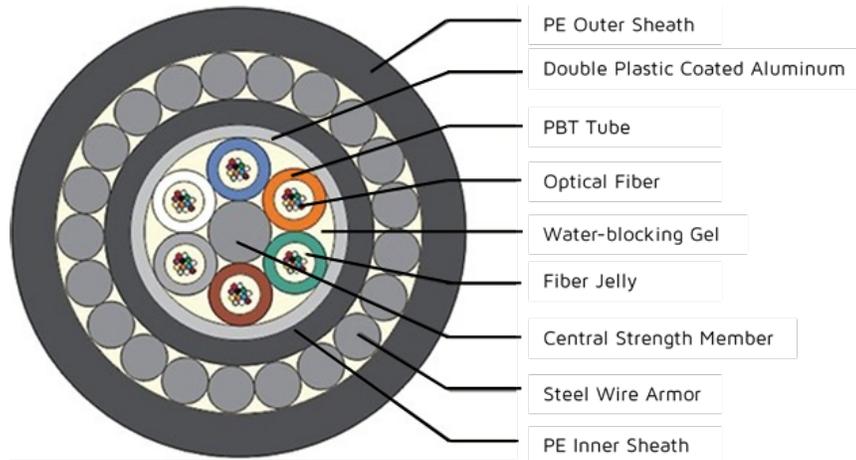
# Underwater Optical Fiber Cables – GYTA33 2-120 Cores

## Installation

- Direct burial
- Underwater

## Structural Features

- Metallic central strength member (phosphate coated steel wire)
- Double plastic coated aluminum tape - PE bonded inner sheath
- Double plastic coated corrugated steel tape - PE bonded outer sheath



## Performance Characteristics

- Excellent water resistance
- Crush resistant
- High tensile strength with steel wire armor
- Impact resistant

## Applications

- Long-haul communication
- Interoffice communication between stations



## Technical Parameters

Cable Cores	Overall Diameter of Cable (mm)	Cable Weight (kg/km)	Minimum Bending Radius		Tension Allowed (N)		Crush Resistance (N/100mm)	
			Static	Dynamic	Short Term	Long Term	Short Term	Long Term
2-30	19.4	745	12.5 times O.D.	25 times O.D.	20000	10000	5000	3000
32-36	20.4	810						
38-60	20.4	810						
62-72	21.0	820						
74-96	22.0	880						
98-120	24.0	1080						

# Non-Metallic Optical Fiber Cables – GYFTY53 2-288 Cores

## Installation

- Electrical areas
- Aerial

## Structural Features

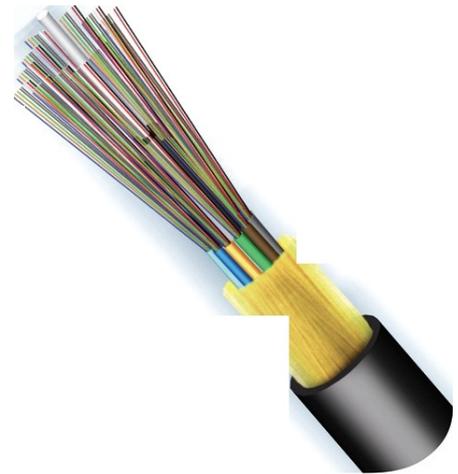
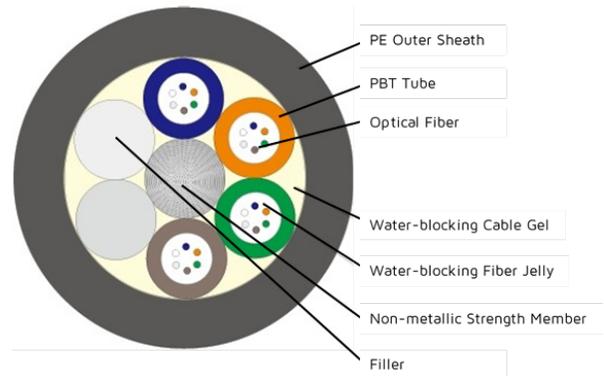
- Non-metallic central strength member
- Reinforced with fiberglass or peripheral aramid yarns

## Performance Characteristics

- Anti-electromagnetic
- Lightning proof
- Electrostatic

## Applications

- Long-haul communication
- Communication between stations or into-house cables



## Technical Parameters

Cable Cores	Overall Diameter of Cable (mm)	Cable Weight (kg/km)	Minimum Bending Radius		Tension Allowed (N)		Crush Resistance (N/100mm)	
			Static	Dynamic	Short Term	Long Term	Short Term	Long Term
2-36	10.4	90	10 times O.D.	20 times O.D.	1500	600	1000	300
38-60	11.2	105						
62-72	11.7	115						
74-96	13.4	150						
98-120	15.0	190						
122-144	16.6	230						
146-216	16.9	240						
218-240	19.3	305						
242-288	21.5	375						

# Fiber Optic Ribbon Cables

# Fiber Optic Ribbon Cables

## Description

Substitute optical fiber ribbon for fibers as optical unit(s)

## Features

- Large volume of fiber core, high capacity
- Excellent geometrical dimension of optical fiber ribbon, easy splicing
- Superior cable design with high fiber density
- Stable control of optical fiber excess length
- The additional loss of optical fiber is less than 0.02dB/Km and no dispersion values change after cabling
- Good environmental performance with applicable temperature range from -40°C to +70°C

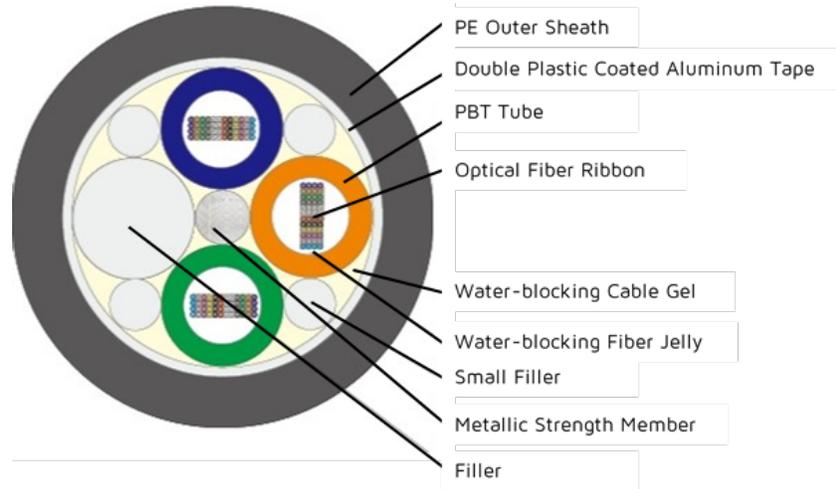
# Stranded Loose Tube Optical Fiber Ribbon Cables - GYDTA[S] 6-420 Cores

## Installation

- Aerial
- Duct

## Structural Features

- Metallic central strength member (phosphate coated steel wire)
- "SZ" reverse oscillating stranding loose tube
- Double plastic coated aluminum tape - PE bonded outer sheath

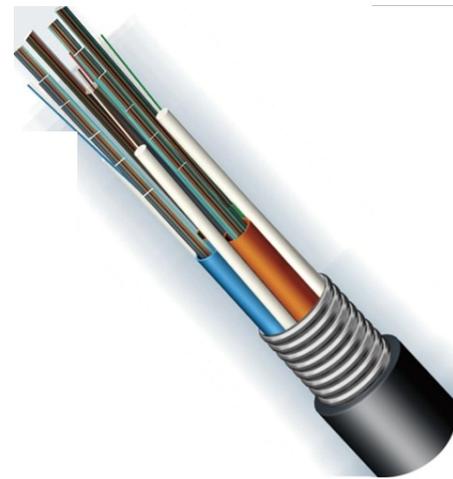


## Performance Characteristics

- Water resistant
- Crush resistant

## Application

- Communication between stations
- Metropolitan area networks
- Access networks



## Technical Parameters

Cable Cores	Ribbon Cores	Maximum Ribbon Cores	Overall Diameter of Cable (mm)	Cable Weight (kg/km)	Minimum Bending Radius		Tension Allowed (N)		Crush Resistance (N/100mm)	
					Static	Dynamic	Short Term	Long Term	Short Term	Long Term
2-144	6	24	9.8	115	10 times O.D.	20 times O.D.	1500	600	1000	300
146-180	6	30	10.6	140						
182-216	6	36	11.0	140						
218-288	12	24	11.6	165						
290-360	12	30	13.2	205						
362-420	12	350	14.7	245						

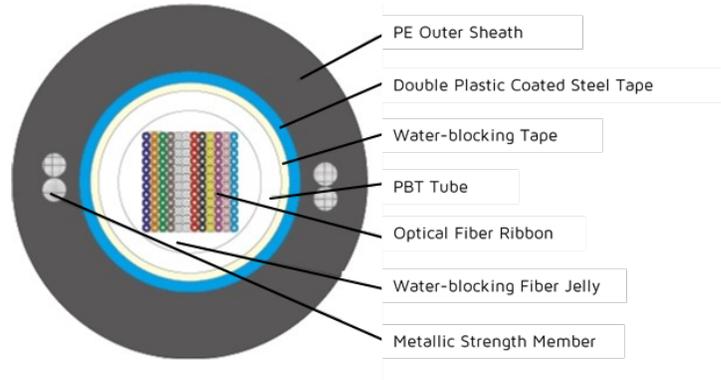
# Central Tube Optical Fiber Ribbon Cables - GYDXTW 6-288 Cores

## Installation

- Aerial
- Duct

## Structural Features

- Central tube cable core design
- Double plastic coated corrugated steel tape - PE bonded outer sheath
- Double parallel steel wires as strength member



## Performance Characteristics

- Excellent tension resistance
- Not affected by cable lateral force

## Application

- Communication between stations
- Local area networks
- Access networks



## Technical Parameters

Cable Cores	Ribbon Cores	Maximum Ribbon Cores	Overall Diameter of Cable (mm)	Cable Weight (kg/km)	Minimum Bending Radius		Tension Allowed (N)		Crush Resistance (N/100mm)	
					Static	Dynamic	Short Term	Long Term	Short Term	Long Term
2-144	6	24	15.0	215	10 times O.D.	20 times O.D.	1500	600	1000	300
146-180	6	30	16.8	265						
182-216	6	36	17.8	300						
218-288	12	24	18.4	320						
290-360	12	30	20.2	380						
362-420	12	35	21.0	410						

# Figure 8

## Self-Supporting Fiber Optic Cables

# Figure 8 Self-Supporting Fiber Optic Cables

## Description

- The primary coated fiber(s) protected within loose tube
- With stranded wire messenger, showing its cross-section as figure-8 shape

## Features

- Large volume of fiber core, high capacity
- Easy installation with self-supporting stranded steel wire, cut down the construction cost
- Water- resistance for whole cross- section by filling water- blocking gel in every single process
- The additional loss of optical fiber is less than 0.02dB/Km and no dispersion value change after cabling
- Good environmental performance with applicable temperature range from -40°C to +70°C

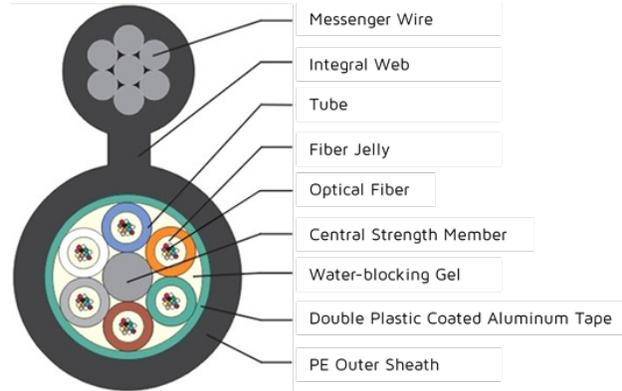
# Stranded Loose Tube Figure 8 Fiber Optic Cables - GYTC8S[A] 2-144 Cores

## Installation

- Self-supporting aerial

## Structural Features

- Figure 8 cross section
- Stranded steel wire messenger
- Double plastic coated corrugated steel tape – PE bounded outer sheath

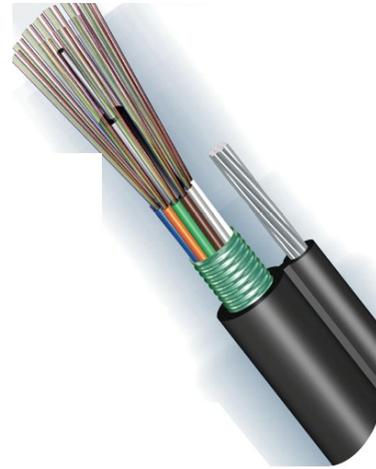


## Performance Characteristics

- Excellent crush resistance
- Moisture-proof
- Certain bulletproof performance

## Application

- Long-haul communications
- Communication between stations



## Technical Parameters

Cable Cores	Spec. of stranded steel wire	Overall Diameter of Cable (mm)	Overall Diameter of Messenger wire (kg/km)	Cable Height (mm)	Cable Weight (kg/km)	Minimum Bending Radius		Max. Loading Tension (N)	Safe Loading Tension (N)	Min. Damaging Tension (N)	Crush Resistance (N/100mm)	
						Static	Dynamic				Short Term	Long Term
2-30	1x7-4.2	9.8	6.4	18.8	210	10 times O.D.	20 times O.D.	7000	3500	15550	2000	1000
32-36		10.3		19.3	230							
38-60		10.7		19.7	230							
62-72		11.3		20.3	255							
74-96		12.9		21.9	290							

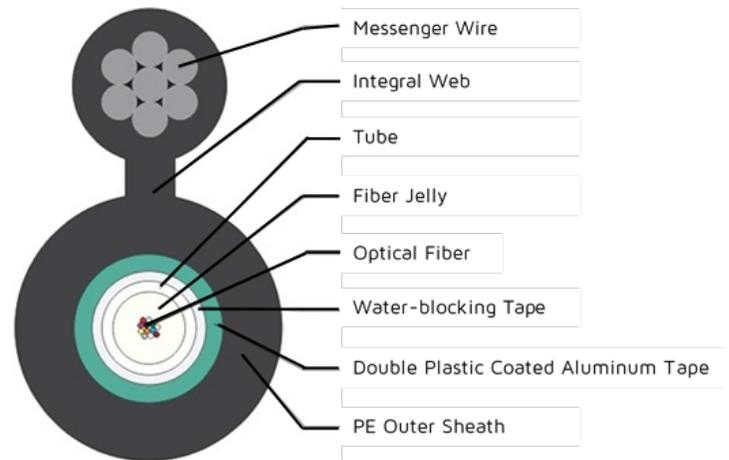
# Central Tube Figure 8 Fiber Optic Cables - GYXTC8S 2-12 Cores

## Installation

- Self-supporting aerial

## Structural Features

- Figure 8 cross section
- Stranded steel wire messenger
- Double plastic coated corrugated steel tape – PE bounded outer sheath
- Primary coated fiber is protected by central loose tube
- Optical fibers gathered in the center of the cable
- Water-blocking layer is wrapped between steel tape and cable core

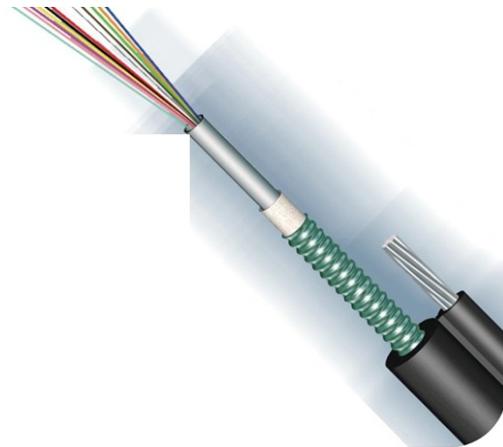


## Performance Characteristics

- Superior water barrier
- Crush resistant
- High tensile strength

## Application

- Long-haul communications
- Communication between stations



## Technical Parameters

Cable Cores	Spec. of stranded steel wire	Overall Diameter of Cable (mm)	Overall Diameter of Messenger wire (kg/km)	Cable Height (mm)	Cable Weight (kg/km)	Minimum Bending Radius		Max. Loading Tension (N)	Safe Loading Tension (N)	Min. Damaging Tension (N)	Crush Resistance (N/100mm)	
						Static	Dynamic				Short Term	Long Term
2-12	1x7-3.0	8.3	5.0	15.8	138	10 times O.D.	20 times O.D.	3000	1000	7990	2000	1000

**More  
Catalogs**

# Pactech Power Cords Catalog

## Table of Contents

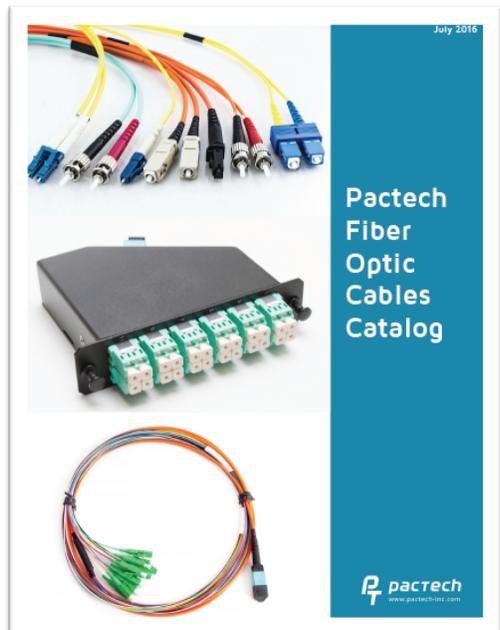
- *C14 to C13 Power Cords*
- *C14 to C15 Power Cords*
- *C14 to C19 Power Cords*
- *C20 to C19 Power Cords*
- *C20 to C15 Power Cords*
- *C20 to C13 Power Cords*
- *C20 to C21 Power Cords*
- *Y Style Power Cords*
- *International Power Cords*



# Pactech Fiber Optic Cables Catalog

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- *Simplex Single Mode Fiber Optic Cords*
- *Duplex Single Mode Fiber Optic Cords*
- *Simplex Multimode Fiber Optic Cords*
- *Duplex Multimode Fiber Optic Cords*
- *Fiber Optic Patch Panels*
- *MPO Patch Cords*
- *Multi-Fiber Cable Assemblies*
- *Fiber Optic Pigtailed*
- *Fiber Optic Loopback Cables*
- *Mode Conditioning Fiber Optic Patch Cords*
- *Indoor Optical Fiber Cables*
- *Outdoor Optical Fiber Cables*
- *Fiber Optic Adapters*
- *Fast Installable Connectors*
- *Fiber Optic Connectors*
- *Fiber Optic Attenuators*



# Pactech Bulk Ethernet Cables Catalog

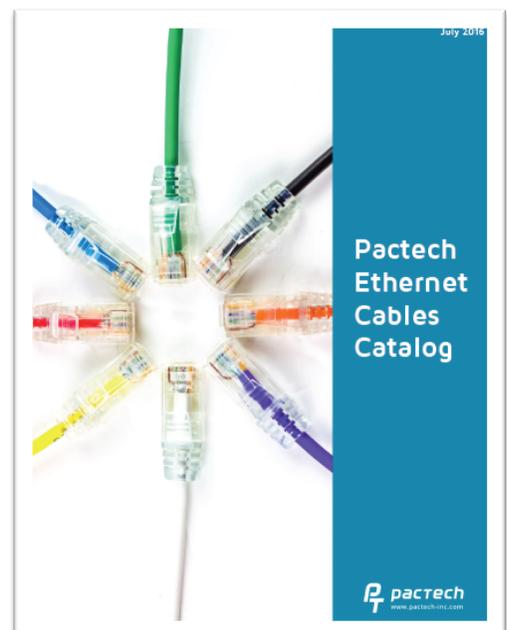
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- *CAT5E UTP Solid*
- *CAT5E FTP XL-LSOH Solid*
- *CAT5E 25 Pairs Solid*
- *CAT6 UTP Solid*
- *CAT6 UTP Dual Solid*
- *CAT6 FTP Solid*
- *CAT6 FTP Dual Solid*
- *CAT6A U-UTP Solid*
- *CAT6A U-FTP Solid*
- *CAT6A U-FTP Dual Solid*
- *CAT6A F-FTP Solid*
- *CAT6A F-FTP Dual Solid*
- *CAT7 S-FTP Solid*
- *CAT6 S-FTP Dual Solid*
- *CAT7A S-FTP Solid*
- *CAT5E UTP Stranded*
- *CAT5E FTP Stranded*
- *CAT6 UTP Stranded*
- *CAT6 U-FTP Stranded*
- *CAT6A U-FTP Stranded*
- *CAT5E Patch Cord*
- *CAT6 Patch Cord*
- *CAT6A Patch Cord*
- *CAT7 S-FTP Assembly*
- *Industrial CAT5E Solid*
- *Industrial CAT7 Solid and Stranded*

# Pactech Ethernet Cables Catalog

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- *CAT5E Ethernet Cables*
- *CAT6 Ethernet Cables*
- *CAT6A Ethernet Cables*
- *CAT7 Ethernet Cables*
- *Patch Panels*
- *Cable Management and Accessories*
- *Data Center Cable Services*



# Pactech Rapide™ Direct Attach Copper Cables Catalog

## Table of Contents

- *Rapide™ 10G SFP+ Passive Twinax Direct Attach Copper Cable*
- *Rapide™ 40G QSFP+ Passive Twinax Direct Attach Copper Cable*
- *Rapide™ 40G QSFP+ to 4xSFP+ Passive Twinax Direct Attach Copper Breakout Cable*
- *Rapide™ 25G SFP28 Passive Twinax Direct Attach Copper Cable*
- *Rapide™ 100G QSFP28 Passive Twinax Direct Attach Copper Cable*
- *Rapide™ 100G QSFP28 to 4xSFP28 Breakout Passive Twinax Direct Attach Copper Cable*



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