Outside Plant Cable

➢ Direct Buried Cable

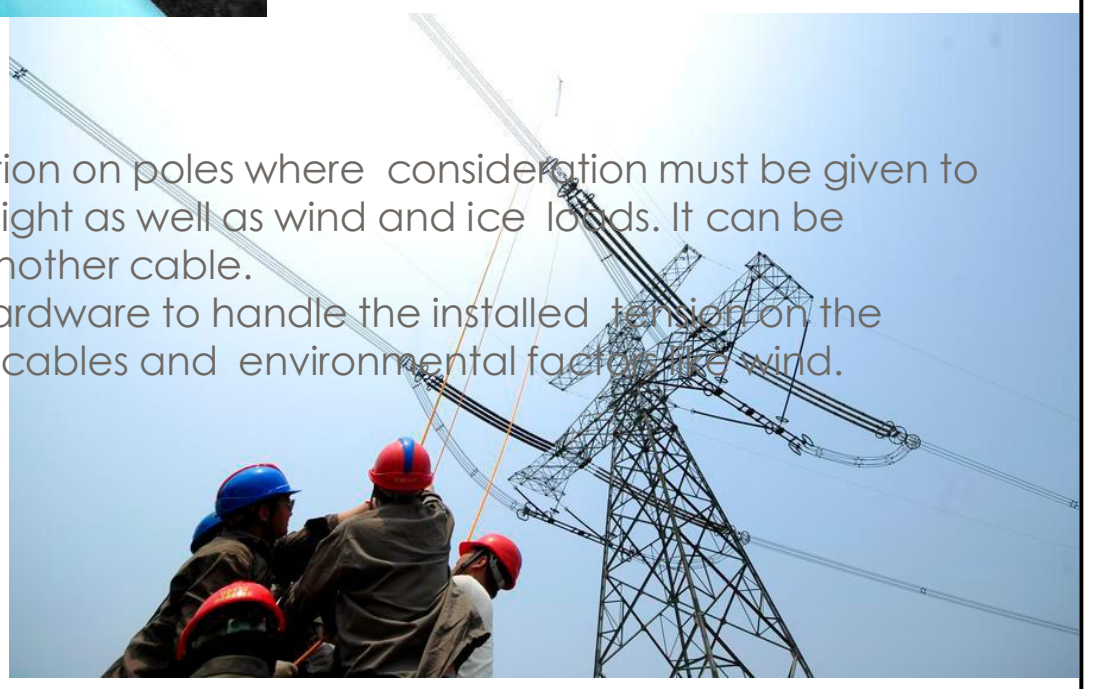
Direct buried cable can be buried directly into the ground in a trench or using a vibratory plow. Except for with great water-blocking and moisture-proof performance, it also has good crushing and mechanical performance. With metallic central strength members, it offers ease of location while dielectric design eliminates grounding issues.

➢ Duct Cable

Duct cables are typically buried, and then the cables are air-blown, jetted, pulled or pushed into the duct. It features high tensile strength and excellent waterproof protection. Usually armored cables are installed under floors in data centers or in rocky soil, as well as to prevent rodent penetration.

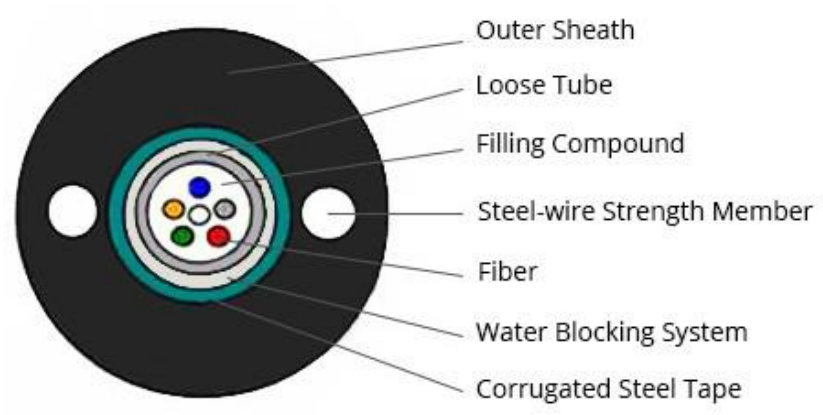
➢ Aerial Cable

Aerial Cables are for outside installation on poles where consideration must be given to continual tension from the cable weight as well as wind and ice loads. It can be helically lashed to a messenger or another cable.
Self-supporting cables use special hardware to handle the installed tension on the cables caused by the weight of the cables and environmental factors like wind.



Single-armored Single-jacket Aerial Cables - GYXTW

Armored Aerial Cable - GYXTW



Inner Structure - GYXTW

Application

- Access network
- Bureaus network
- Metropolitan network
- Aerial & conduit/duct application

GYXTW single-armored cables feature central loose tube wrapped with a layer of PSP longitudinally, excellent crush-resistant performance. Between the PSP and the loose tube water-blocking material is applied to keep the cable compact and watertight. Two parallel steel wires are placed at the two sides of the steel tape, to ensure tensile strength. The cable is completed with a single polyethylene (PE) sheath. This is suitable for aerial or duct environment for communication between bureaus, metropolitan network, access network.

Features and Benefits

- Low dispersion and attenuation
- Light weight, small diameter, easy to lay
- Good tensile strength and crush resistance performance
- Good moisture-resistance, water blocking, and flexibility
- Good mechanical and temperature resistant performance

Datasheet

Technical Specification

Parameter	Unit	Life Cycle	2F	4F	6F	8F	12F	24F
Minimum Tensile Strength	N	short term	1500	1500	1500	1500	1500	1500
		long term	600	600	600	600	600	600
Minimum Crush Load	N/100mm	short term	1000	1000	1000	1000	1000	1000
		long term	300	300	300	300	300	300
Minimum Bending Radius	MM	short term	20D	20D	20D	20D	20D	20D
		long term	10D	10D	10D	10D	10D	10D
Storage Temperature	℃	-40 to +60						

Optical Characteristic

Parameter	Unit	G.652		62.5/125μm		50/125μm	
Attenuation	dB/km	1310nm	⩽0.36	850nm	⩽3.0	850nm	⩽3.0
		1550nm	⩽0.22	1310nm	⩽1.0	1310nm	⩽1.0
Bandwidth	MHz · km	-	-	850nm	⩾600	850nm	⩾200
		-	-	1300nm	⩾1200	1300nm	⩾600
Numerical Aperture	NA	-		0.275±0.015		0.200±0.015	
Cable Cut-off Wavelength λcc	nm	⩽1260		-		-	

Order Information

Fiber Count	Part Number	Application	Cable Diameter (mm)	Weight (kg/km)
Singlemode 9/125 OS2				
2F	GYXTW-OS2-2F	Aerial or Duct	8.0	85
4F	GYXTW-OS2-4F	Aerial or Duct	8.0	85
6F	GYXTW-OS2-6F	Aerial or Duct	8.0	85
8F	GYXTW-OS2-8F	Aerial or Duct	8.0	85
12F	GYXTW-OS2-12F	Aerial or Duct	8.0	85
24F	GYXTW-OS2-24F	Aerial or Duct	9.0	85
Multimode 62.5/125 OM1				
2F	GYXTW-OM1-2F	Aerial or Duct	8.0	85
4F	GYXTW-OM1-4F	Aerial or Duct	8.0	85
6F	GYXTW-OM1-6F	Aerial or Duct	8.0	85
8F	GYXTW-OM1-8F	Aerial or Duct	8.0	85
12F	GYXTW-OM1-12F	Aerial or Duct	8.0	85
24F	GYXTW-OM1-24F	Aerial or Duct	9.0	85
Multimode 50/125 OM2				
2F	GYXTW-OM2-2F	Aerial or Duct	8.0	85
4F	GYXTW-OM2-4F	Aerial or Duct	8.0	85
6F	GYXTW-OM2-6F	Aerial or Duct	8.0	85
8F	GYXTW-OM2-8F	Aerial or Duct	8.0	85
12F	GYXTW-OM2-12F	Aerial or Duct	8.0	85

Order Information

24F	GYXTW-OM2-24F	Aerial or Duct	9.0	85
		Multimode 50/125 OM3		
2F	GYXTW-OM3-2F	Aerial or Duct	8.0	85
4F	GYXTW-OM3-4F	Aerial or Duct	8.0	85
6F	GYXTW-OM3-6F	Aerial or Duct	8.0	85
8F	GYXTW-OM3-8F	Aerial or Duct	8.0	85
12F	GYXTW-OM3-12F	Aerial or Duct	8.0	85
24F	GYXTW-OM3-24F	Aerial or Duct	8.0	85
		Multimode 50/125 OM4		
2F	GYXTW-OM4-2F	Aerial or Duct	8.0	85
4F	GYXTW-OM4-4F	Aerial or Duct	8.0	85
6F	GYXTW-OM4-6F	Aerial or Duct	8.0	85
8F	GYXTW-OM4-8F	Aerial or Duct	8.0	85
12F	GYXTW-OM4-12F	Aerial or Duct	8.0	85
24F	GYXTW-OM4-24F	Aerial or Duct	9.0	85

Contact Us

Fiberstore China
Room 301, Third Floor, Weiyong Building, No. 10 Kefa Road, Nanshan District, Shenzhen, 518057, China
Tel: +86 (755) 8300 3611
Fax: +86 (755) 8326 9395

Fiberstore U.S.
331 Andover Park East Ste330, Tukwila, WA 98188, United States
Tel: +1-425-226-2035
Fax: +1-253-246-7881

Fiberstore Hong Kong
1220 Tung Chun Commercial Centre, 438-444 Shanghai Street, Kowloon, HongKong
Tel: +(852) 817 63606
Fax: +(852) 817 63606

Fiberstore U.K.
Third Floor 207 Regent Street, London, W1B 3HH, United Kingdom
Tel: +44 (020) 3287 6810

Addresses, phone number and fax number also have been listed at www.fs.com. Please e-mail us at sales@fs.com or call us for assistance.

All statements, technical information, and recommendations related to the products here are based upon information believed to be reliable or accurate. However, the accuracy or completeness thereof is not guaranteed, and no responsibility is assumed for any inaccuracies. Please contact FS for more information.