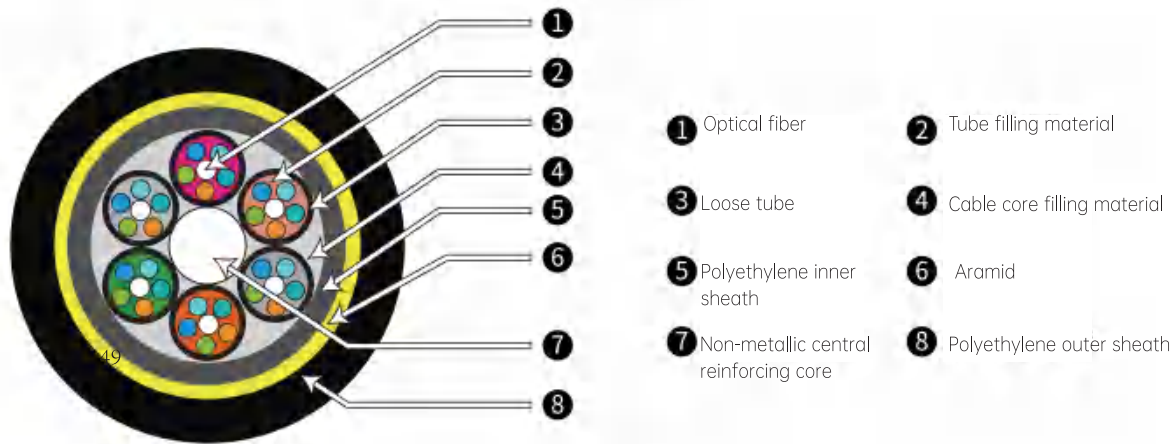


DCFA

Loose Tube Layer Stranded All-dry Optical Cable



Product Description

Colored optical fibers are placed into a loose tube made of high-modulus, hydrolysis-resistant material, which is filled with thixotropic water-blocking gel. The core of the cable consists of a non-metallic strength member(FRP), around which the loose tube(and filling rope)is twisted to form a compact and circular cable core. Both the loose tube and the strength member are wrapped with water-blocking yarn. Longitudinally wrapped water-blocking tape is applied to the cable core, followed by longitudinal wrapping with coated aluminum tape and extrusion of a polyethylene sheath to form the cable.

Product Features

- ◆Exhibits good mechanical performance and temperature characteristics.
- ◆The material of the loose tube has good hydrolysis resistance and excellent pressure resistance.
- ◆Special water-blocking yarn is placed inside the loose tube to provide crucial protection for the optical fibers.
- ◆The tight cable structure effectively prevents tube shrinkage.
- ◆Features a moisture-resistant layer of coated aluminum tape.
- ◆The polyethylene sheath has excellent resistance to ultraviolet radiation.



Optical Characteristics

Fiber Type	Attenuation (+20℃)				Bandwidth		Numerical Aperture	Cable Cut-off Wavelength
	@850mm	@1300mm	@1310mm	@1550mm	@850mm	@1300mm		
G.652	-	-	≤0.36db/km	≤0.22db/km	-	-	-	≤1260nm
G.655	-	-	≤0.40db/km	≤0.23db/km	-	-	-	≤1450nm
50/125μm	≤3.3db/km	≤1.2db/km	-	-	≥500MHz·km	≥500MHz·km	0.200±0.015NA	-
62.5/125μm	≤3.5db/km	≤1.2db/km	-	-	≥200MHz·km	≥500MHz·km	0.275±0.015NS	-

Structural Parameters

Cable Model (increments by 2 fibers)	Number of Fibers	Number of Loose Tubes	Number of Filling Ropes	Reference Cable Weight (kg/km)	Allowable Tensile Force Long-term/Short-term (N)	Allowable Crush Force Long-term/Short-term (N)	Bending Rodius Static/Dynamic (mm)
DCFA-2~6Xn	2~6	1	5	96	400/1000	300/1000	10D/20D
DCFA-8~12Xn	8~12	2	4	96			
DCFA-14~18Xn	14~18	3	3	96			
DCFA-20~24Xn	20~24	4	2	96			
DCFA-26~30Xn	26~30	5	1	96			
DCFA-32~36Xn	32~36	6	0	96			

Storage and Operating Temperature: -40℃ to +70℃.

Note:

- a.The suffix Xn in the model indicates the selected fiber type, see Yangtze Fiber Model Explanation for details.
- b.The color arrangement of the loose tube and fibers can be found in the chromatogram.
- c.The minimum thickness of the polyethylene sheath is 1.5mm.

- d.The cable should not be stored in open-air environments for more than 6 months, otherwise the spool may be damaged.
- e.This document is for reference only and cannot be used as an attachment to the contract. For detailed product information, please contact our sales staff.