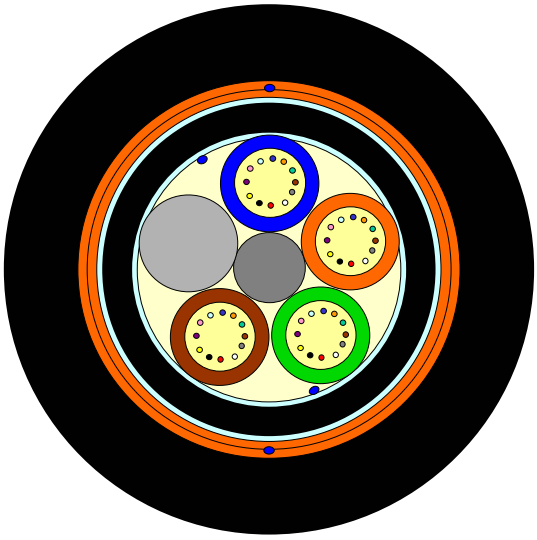
Power Guide® Cable

ADSS Cable
Medium duty All Dielectric Self Supporting Cable



Benefits

- Outstanding optical performance, durability and field reliability
- Fast, one-step installation for valuable time and cost savings
- Easily strippable sheath for quick convenient cable preparation

Design

- Optical Fibers
- Thermoplastic Polyester-Tubes, filled with thixotropic Gel (diameter 2.8/3.0 ± 0.1 mm)
- GRP Central Member
- Dry Core, Water Swellable Tape
- Ripcords
- MD-PE Inner Jacket
- Ripcords
- Non-metallic Aramid Strength Elements
- MD-PE Outer Jacket

Design

Cable Code *	AT-XXX27D6-012-CNIE	AT-XXX27D6-024-CNIE	AT-XXX27DT-048-CNIE
Design	2 tubes, 6 fibres/tube, 3 fillers	4 tubes, 6 fibres/tube, 1 filler	4 tubes, 12 fibres/tube, 1 filler

* XXX = code in this place specifies fibre type

Identification

Fibre colour code	Blue, orange, green, brown, slate, white, red, black, yellow, violet, rose, nature
Tube colour code	Blue, orange, green, brown
Sheath colour	Black
Sheath marking	**OFS OPTICAL CABLE [ID] [MM/YY] [Handset-Sign] XXXF [Meter Marking]** *Alternative sheath printing available on request.*

Shipping information (example calculation)

Cable Length (m)	4000	5000
Drum Diameter / Width (mm)	1 800 / 1 090	1 800 / 1 090
Weight (with / without lagging) (kg)	917 / 989	1 085 / 1 157

AT-XXX27D6-012-CNIE, AT-XXX27D6-024-CNIE, AT-XXX27DT-048-CNIE

Cable weight	168 kg/km
Cable diameter	15.2 ± 0,5 mm
Cable modulus	14.2 kN/mm^2
Temperature coefficient	1.85 ppm/°C
Estimated breaking load	46.5 kN
Maximum short term tension	16.8 kN
Maximum long term (installation) tension	9.1 kN
Maximum span (Install sag 1%, 18 mm ice, 19 m/s wind)	250 m
Maximum span (Install sag 1%, 7 mm ice, 19 m/s wind)	470 m

Sample sag calculation

Installation temperature: 0°C				Ice thickness 18 mm				
Installation tension 6.0 kN				Wind load 19 m/s				
				Temperature -20°C				
Span	Install sag	Install sag	Install tension	V. sag	V. sag	H. sag	Tension	Angle
m	m	% of span	kN	m	% of span	m	kN	Deg
100	0.3	0.3%	6.0	2.2	2.2%	1.4	10.6	32
125	0.5	0.4%	6.0	3.1	2.5%	1.9	11.7	32
150	0.8	0.5%	6.0	4.0	2.7%	2.5	12.8	32
175	1.1	0.6%	6.0	5.1	2.9%	3.2	13.9	32
200	1.4	0.7%	6.0	6.2	3.1%	3.9	14.9	32
225	1.7	0.8%	6.0	7.3	3.3%	4.6	15.9	32
250	2.1	0.9%	6.0	8.6	3.4%	5.4	16.8	32