

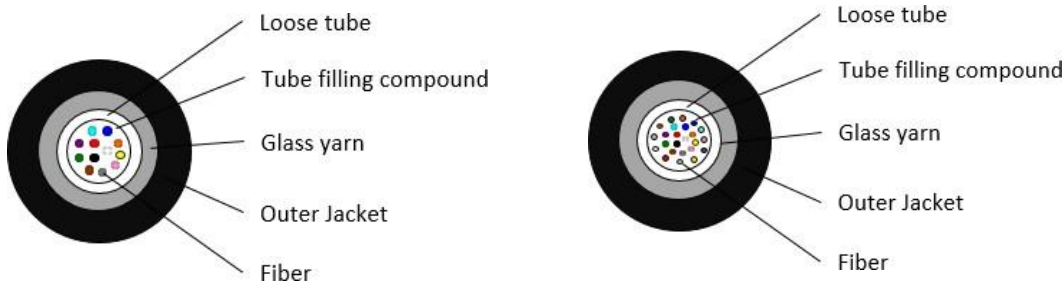
Applications

Prose indoor/Outdoor Non-Metal Armored fiber optic cable is designed for fiber solutions with excellent performance which exceed IEC 60794, IEC 60793 requirements. Good EMI-resistant, easy installation, meanwhile having extremely high flexibility, adaptability and maximally integrated designing.

Characteristic/ Standard

- Indoor/ Outdoor any purpose cable distribution;
- Backbone distribution cable in a building
- Comply with standard IEC 60794, IEC 60793;
- LSZH jacket meet IEC 60332-1;

Profile/Outline



Structure parameters

Items		Specification	
Fiber Count		2~12	14~24
Optical Fiber	Diameter(±5μm)	250	
	Color	1. Blue 2. Orange 3. Green 4. Brown 5. Grey 6. White 7. Red 8. Black 9. Yellow 10. Violet 11. Pink 12. Aqua The second set of 12 fibers with black rings is separated from the first set of 12, and the color of NO.20 fiber is natural.	
Loose Tube	Color	Natural	
	Water blocking material	Fiber Filling compound	
Cable	Core reinforce	Glass yarn	
	Sheath material	PE/ LSZH	
	Color	Black	
	Out diameter(mm)	6.2±0.3mm(PE), 6.6±0.3mm(LSZH)	8.7±0.3mm(PE), 8.7±0.4mm(LSZH)
	Cable weight(kg/km)	Approx. 29(PE), Approx. 50(LSZH)	Approx. 36(PE), Approx. 80(LSZH)

Optical Parameters

Fiber Type		Single-mode G652D (1310/1550nm)	Single-mode G657A1 (1310/1550nm)	Single-mode G657A2 (1310/1550nm)
Attenuation(dB)	Typical	0.36/0.22	0.36/0.22	0.36/0.22
	Maximum	0.5/0.4	0.5/0.4	0.5/0.4
Zero Dispersion Slope		≤0.091 ps/km·nm ²	≤0.092 ps/km·nm ²	≤0.092 ps/km·nm ²
Dispersion(1285~1340nm)		-3.5 – 3.5ps/(nm·km)	-3.5 – 3.5ps/(nm·km)	-3.5 – 3.5ps/(nm·km)
Mode field Diameter (@1310nm)		9.1±0.4 μm	8.8±0.4 μm	8.8±0.4 μm
Cutoff wavelength cable(nm)		≤1260 nm	≤1260 nm	≤1260 nm
Min bend radius(mm)		16mm	10mm	7.5mm
Cladding diameter(μm)		125±1.0	125±1.0	125±1.0

Fiber Type		Multi-mode (62.5/125μm) (850/1300nm)	Multi-mode (50/125μm) (850/1300nm)	Multi-mode OM3 (850/1300nm)	Multi-mode OM4 (850/1300nm)	Multi -mode OM5 (850/953nm/1300nm)
Attenuation(dB)	Typical	3.0/1.0	3.0/1.0	3.0/1.0	3.0/1.0	3.0/-/1.0
	Maximum	3.5/1.5	3.5/1.5	3.5/1.5	3.5/1.5	3.5/-/1.5
Bandwidth (MHz·km)		≥200/≥500	≥500/≥500	≥1500/≥500	≥3500/≥500	≥3500/≥1850/≥500
Effective modal bandwidth		----/----	----/----	≥2000/----	≥4700/----	≥4700/2470/----
10 Gigabit Ethernet SX (MHz·km)		----/----	----/----	≤300/----	≤550/----	----/----/----
40GBASE-SR4/100GBASE-SR10		----/----	----/----	----/----	----/----	200M @850nm
Min bend radius(mm)		30	30	7.5	7.5	7.5
Cladding diameter(μm)		125±1.0	125±1.0	125±1.0	125±1.0	125±1.0

Mechanical & Temperature Characteristics

Items	Parameters
Tensile strength (installation)	1000N
Tensile strength (operation)	400N
Min bend radius(installation)	20 times O.D
Min bend radius(operation)	10 times O.D
Crush resistance	1000N/100mm
Transportation temperature	-20℃~+60℃
Storage temperature	-20℃~+60℃
Installation temperature	-20℃~+60℃
Operation temperature	-20℃~+60℃
Flame retardant(PE)	IEC 60332-1
Flame retardant(LSZH)	IEC 60794

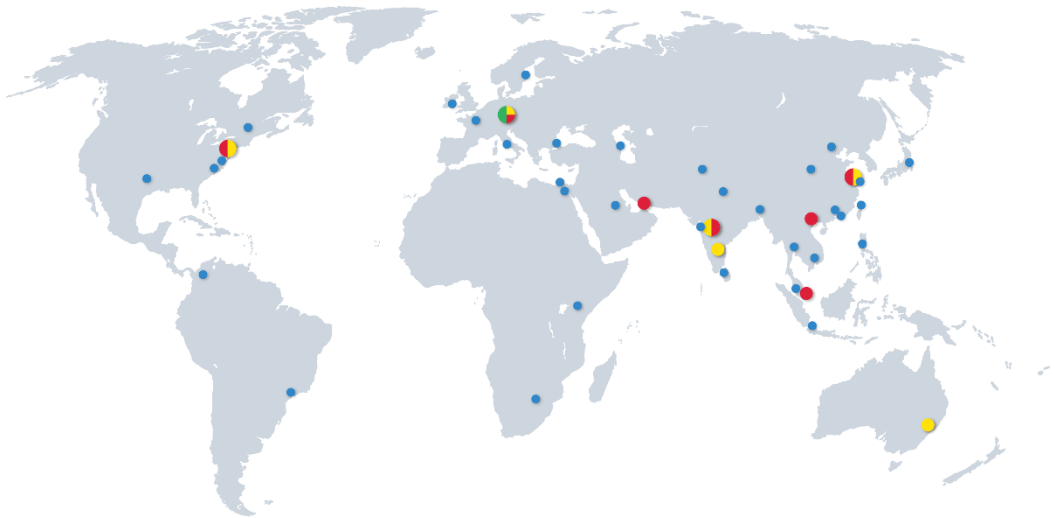
Ordering Information

Category	Cable Structure	Fiber Type	Outer Sheath Material	Fiber Count
FC: Fiber Cable	07: Indoor/Outdoor, Non-Metal Armored, Glass Yarn, Central tube (2-24F)	GD: SM G652D M3: MM OM3 M4: MM OM4 M5: MM OM5	2: LSZH 60332-1 3: PE	004:4F 008:8F 012:12F 024:24F

For Example:

Order Number	Fiber count	Description
FC07-GD2012	12	Cable, Indoor/Outdoor, Non-Metal Armored, Glass Yarn, Central tube, 12F, SM G652D, LSZH
FC07-M32012	12	Cable, Indoor/Outdoor, Non-Metal Armored, Glass Yarn, Central tube, 12F, MM OM3, LSZH
FC07-M42024	24	Cable, Indoor/Outdoor, Non-Metal Armored, Glass Yarn, Central tube, 24F, MM OM4, LSZH
FC07-GD3012	12	Cable, Indoor/Outdoor, Non-Metal Armored, Glass Yarn, Central tube, 12F, SM G652D, PE
FC07-M33012	12	Cable, Indoor/Outdoor, Non-Metal Armored, Glass Yarn, Central tube, 12F, MM OM3, PE
FC07-M43024	24	Cable, Indoor/Outdoor, Non-Metal Armored, Glass Yarn, Central tube, 24F, MM OM4, PE

GLOBAL FOOTPRINT



Headquarters

Donauwörth - Germany
PROSE Technologies GmbH
Add.: Dr.-Friedrich-Drechsler-Straße 14, 86609
Donauwörth, Germany
E-mail: info.eu@prosetechnologies.com

Western Europe

Dublin - Ireland
PROSE Technologies (Ireland) Limited
Add.: 6th Floor, South Bank House, Barrow Street,
Dublin 4 Ireland
E-mail: Info@prosetechnologies.com

Eastern Europe & Central Asia

E-mail: info.eeca@prosetechnologies.com

North America

New Jersey - America
PROSE Technologies LLC
Add.: 550 Clark Drive Budd Lake, NJ 07828, United
States of America
Tel: +1 888 840 4066
E-mail: info.us@prosetechnologies.com

Middle East

ubai - UAE
PROSE Technologies DMCC
Add.: 3702, Mazaya Business Avenue BB2, JLT, Dubai
Tel: +971 4 3999168
E-mail: info.ae@prosetechnologies.com

Africa

Nairobi - Kenya
PROSE Technologies Africa (PTY) Ltd
Tel: +254 780440410
E-mail: info.ke@prosetechnologies.com

Gauteng, (Johannesburg) - South Africa
PROSE Technologies Africa (PTY) Ltd
Add.: Building 20, Cambridge Office Park, 5 Bauhina
Road, Highveld Techno Park Centurion, Gauteng 0169,
South Africa
Mobile: +27 725554840
E-mail: info.za@prosetechnologies.com

South Asia

Mumbai - India
PROSE Technologies India Private Limited
Add.: 403-407, Eco Star, Vishveshwar Nagar,
Goregaon East, Mumbai ,India 400063
Tel: +91 22-66453000
E-mail: info.in@prosetechnologies.com

Pune - India
PROSE Technologies India Pvt.Ltd
Add.: A-79, Block-A , Horizon Industrial Parks, Phase II,
MIDC Chakan Industrial Area, Khed, Pune , India
410501
Tel: +91 2135-635200
E-mail: info.in@prosetechnologies.com

Bangalore - India
PROSE Technologies India Private Limited
Add.: No.494 East End Main Road, Jayanagar IX Block,
Bangalore, India 560069
E-mail: info.in@prosetechnologies.com

New Delhi - India
PROSE Technologies India Pvt.Ltd
Add.: H-3/157, 2nd Floor, Vikas Puri, New Delhi, India
110018
E-mail: info.in@prosetechnologies.com

Dhaka - Bangladesh
PROSE Technologies (Bangladesh) Limited
Add.: House-360 (2nd Floor), Lane-5 (East), Baridhara
DOHS, Dhaka-1206, Bangladesh
Tel: +880 1977070130
E-mail: info.bd@prosetechnologies.com

Islamabad - Pakistan
Add.: Unit 514, 5th Floor, ISE Towers, Islamabad,
Pakistan
Tel: +92 3335357733
E-mail: info.pk@prosetechnologies.com

Sri Lanka
Tel: +880 1977070130
E-mail: info.lk@prosetechnologies.com

South East Asia

Selangor - Malaysia
PROSE Technology (M) Sdn. Bhd
Add.: Unit 2-1, Level 2, The Podium, Tower 3, UOA
Business Park, No 1, Jalan Pengaturcara U1/51a,
Seksyen U1, 40150 Shah Alam, Selangor, Malaysia
Tel: +60 126859319
E-mail: info.my@prosetechnologies.com

Bangkok - Thailand
PROSE Technology (Thailand) Co., Ltd
Add.: 349 SJ Infinite I Business Complex,9 Floor, Room
905, Vibhavadi Rangsit Road, Chom Phon Sun-district,
Chatuchak District, Bangkok Provice, Thailand
Tel: +66 80 6606630
E-mail: info.th@prosetechnologies.com

Singapore
PROSE Technologies (Singapore) Pte.Ltd
Add.: 10 Anson Road#13-15 International Plaza
Singapore 079903
Tel: +6598366793
E-mail: info.sg@prosetechnologies.com

Hanoi - Vietnam
PROSE Technologies (Vietnam) Company Limited
Add.: Floor 15, Vinaconex 9 Building, HH-2 Block,
Pham Hung Street, Me Tri Ward, Nam Tu Liem District,
Hanoi, Vietnam
Tel: +84 933086498
E-mail: info.vn@prosetechnologies.com

Taguig - Philippines
PROSE Technologies Philippines, Inc.
Add.: Unit 17 19th Floor Highstreet South Corporate
Plaza Tower 1, 26th Street corner 9th Avenue, Bonifacio
Global City, Taguig City, Philippines
Tel: +63 27572762
E-mail: info.ph@prosetechnologies.com

Jakarta - Indonesia
PT. PROSE Technologies Indonesia
Add.: Plaza Sentral 6th Floor, Jalan Jenderal Sudirman
No. 47, Jakarta 12930, Indonesia
Tel: +62 21 57901997
E-mail: info.id@prosetechnologies.com

East Asia

Suzhou - China
PROSE Technologies (Suzhou) Co.,Ltd
Add.: No. 6, Shen'an Road, DianShanHu, Suzhou,
JiangSu, China
E-mail: Info@prosetechnologies.com

Beijing - China
PROSE Technologies (Beijing) Co.,Ltd
E-mail: Info@prosetechnologies.com

Shanghai - China
PROSE Technologies (Shanghai) Co.,Ltd
E-mail: Info@prosetechnologies.com

Dongguan - China
Add.: Room 1506, building 1, No. 1, Yile Road,
Songshanhu Park, Dongguan City, Guangdong
Province, China
E-mail: Info@prosetechnologies.com

Hongkong - China
PROSE Technologies Company Limited
Add.: Unit B 13/F,Prat Commercial Building, 17-19 Prat
Avenue, Tsimshatsui, Kowloon, HongKong, China
Tel:+86 512 86896789 - 2921/2922
E-mail: info.hk@prosetechnologies.com

Taiwan
Tel: +63 2 7572762
E-mail: info.tw@prosetechnologies.com

Oceania

New South Wales - Australia
PROSE Technologies (Australia) Pty. Ltd
Add.: 5/13 Boundary Rd, Northmead, NSW 2152,
Australia
Tel: +61 2 78055523
E-mail: info.au@prosetechnologies.com