

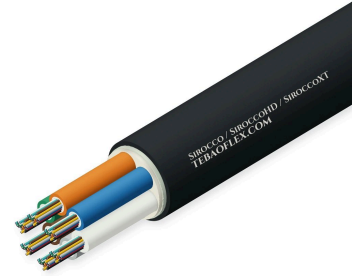


fiber optic cable series

Sirocco / SiroccoHD / SiroccoXT

Air-Blown Microduct Fibre Optic

Ultra-high-density (12 to 864F) 200 μm & 180 μm air-blown microduct fibre cables &



IEC 60794-5-10/20

180 / 200 / 250 μm

12 to 864 Fibres

Application

Sirocco, SiroccoHD & SiroccoXT Air-Blown Microduct Fibre Optic Unit & Cable series engineered per IEC 60794-5-10/5-20 with 250 μm , 200 μm (HD) and 180 μm (XT) bend-insensitive G.657.A1/A2 fibres for compressed-air jetting up to 2,500.

Typical uses: Hyperscale Data-Centre Interconnects (DCI), FTTH / FTTx Metro Access Networks, 5G Mobile Fronthaul & Backhaul Ducts, Smart Highway & Railway Trackside Ducts, Utility & Campus Microduct Infrastructure

Construction



Cross-section, not to scale

- 1 250 μm / 200 μm (HD) / 180 μm (XT) optical fibres
- 2 Thin-wall colour-coded micro-tubes (or acrylate EPFU matrix)
- 3 Central dielectric FRP rod & dry water-block
- 4 Low-friction virgin HDPE micro-sheath

Technical data

Typical values

Dielectric design	100 % metal-free all-dielectric construction	Glass cladding diameter	125.0 μm $\pm$ 0.7 μm across all 250/200/180 μm tiers
Mode field diameter	8.6 to 9.2 μm $\pm$ 0.4 μm @ 1310 nm	Operating temperature	-30 $^{\circ}\text{C}$ to +70 $^{\circ}\text{C}$ (-40 $^{\circ}\text{C}$ on 12-144F standard)
Installation (blowing) temp.	-10 $^{\circ}\text{C}$ to +50 $^{\circ}\text{C}$	Storage temperature	-40 $^{\circ}\text{C}$ to +70 $^{\circ}\text{C}$
Outer diameter range	1.1 mm (4F EPFU) · 5.5 mm (288F XT) · 9.7 mm (864F)	Max. blowing / pulling load	15 N (EPFU) · 700 N to 1,800 N (microcables)
Crush resistance	500 N to 1,000 N / 100 mm	Min. bend radius	15 $\times$ OD (static) · 20 $\times$ OD (blowing)
Attenuation @ 1310 nm	$\leq$ 0.35 dB/km	Attenuation @ 1550 / 1625 nm	$\leq$ 0.21 dB/km @ 1550 nm · $\leq$ 0.23 dB/km @ 1625 nm
PMD link design value	$\leq$ 0.06 ps/ $\sqrt{\text{km}}$	Water penetration	IEC 60794-1-22 Method F5B longitudinal block
Blowing track performance	$\geq$ 1,000–2,500 m on IEC 60794-1-21 Method E19 track	Sheath friction coeff.	$\mu \leq$ 0.12 against ribbed/silicone-lined HDPE microducts
Standards	IEC 60794-5-10 & IEC 60794-5-20 (EPFU)		

Sizes

7 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Order designation	Fibre count & coating	Cable $\varnothing$ mm	Weight $\approx$ kg/km	Max. pull N	Min. duct ID mm
Sirocco EPFU & Standard 250 μm 2 sizes					
☐ Sirocco EPFU-12F	12F $\times$ 200 μm G.657.A1 EPFU	1.6	2.1	25	3.5
☐ Sirocco-48F-250	48F (4 $\times$ 12) $\times$ 250 μm G.657.A1	5.2	24.0	700	8.0
SiroccoHD (200 μm) & SiroccoXT (180 μm) High-Density 5 sizes					
☐ SiroccoHD-144F-200	144F (12 $\times$ 12) $\times$ 200 μm G.657.A1	6.2	36.0	900	8.0
☐ SiroccoHD-288F-200	288F (12 $\times$ 24) $\times$ 200 μm G.657.A1	6.0	35.0	900	8.0
☐ SiroccoXT-288F-180	288F (12 $\times$ 24) $\times$ 180 μm G.657.A2	5.5	29.0	850	8.0
☐ SiroccoXT-552F-180	552F (23 $\times$ 24) $\times$ 180 μm G.657.A2	7.9	61.0	1,400	10.0
☐ SiroccoHD-864F-200	864F (36 $\times$ 24) $\times$ 200 μm G.657.A1	9.7	92.0	1,800	12.0

– Recommended microduct fill ratio is 50 % to 75 % of microduct inner diameter (ID) for maximum blowing distance.

Standards and approvals

- ✓ IEC 60794-5-10 & IEC 60794-5-20
- ✓ ITU-T G.652.D / G.657.A1 / A2
- ✓ RoHS 2 & REACH Compliant

Certifications



Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone

+86 185 9591 3361

Email

info@tebaoflex.com

Web

tebaoflex.com/cables/sirocco-siroccoHD-siroccoXT-air-blown-microduct-fibre-optic-unit-cable



Typical values for this cable type, based on IEC 60794-5-10 / IEC 60794-5-20 / ITU-T G.657.A1/A2. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.