



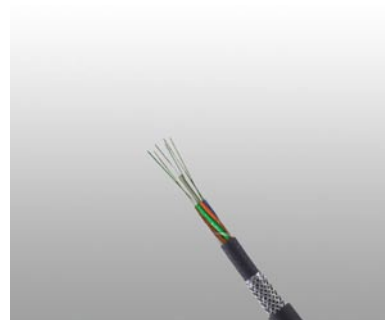
## Optical Fibre Cables

[www.caledonian-cables.co.uk](http://www.caledonian-cables.co.uk)

### F5 QFCB

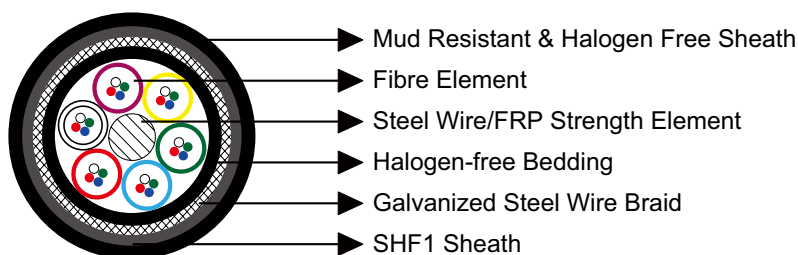
#### Applications

These steel armoured optical fibre cables are flame retardant, low smoke, halogen free and fire resistant, used for communication and emergency systems that need to be operational during fire.



#### Standards

- IEC 60794
- IEC 60811-2-1
- IEC 60331-25
- IEC 60332-3-24
- IEC 60332-3-22
- IEC 60754-1,2
- IEC 61034-1,2
- NEK 606:2004



#### Construction

- **Fibre Element:** Loose tube core design.
- **Central Strength Element:** Steel wire or fibre reinforced plastic (FRP).
- **Bedding:** Halogen free and flame retardant thermoplastic compound.
- **Armour:** Galvanized steel wire braid.
- **Outer Sheath1:** Halogen free and flame retardant, UV-stabilized, thermoplastic compound, SHF1.
- **Outer Sheath2:** Mud resistant and halogen-free thermoplastic compound.

#### Electrical Characteristics

Fibre Type		9/125	50/125	50/125	62.5/125
ITU-T type		G652.D	G651	G651	-
IEC11801 Classification		OS1 & OS2	OM2	OM3	OM1





Core Diameter	µm	8.7±0.4	50±3.0	50±3.0	62.5±3.0
Cladding Diameter	µm	125 ± 1.0	125 ± 2.0	125 ± 2.0	125 ± 2.0
Coating Diameter	µm	245 ± 10	245 ± 10	245 ± 10	245 ± 10
Maximum Attenuation					
@850 nm	dB/km	-	3.0	3.0	3.5
@1300 nm	dB/km	-	1.5	1.0	1.5
@1310 nm	dB/km	0.36	-	-	-
@1550 nm	dB/km	0.22	-	-	-
Minimum Bandwidth(OFL*)					
@850 nm	MHz.km	-	500	1500	200
@1300 nm	MHz.km	-	500	500	600
Maximum Chromatic Dispersion					
1285-1330 nm	ps/nm.km	2.8	-	-	-
1550 nm	ps/nm.km	18	-	-	-
Zero Dispersion Wavelength	nm	1300~1324	-	-	-

## Mechanical and Thermal Properties

- Bending Radius: 20×OD (during installation); 10×OD (fixed installed)
- Temperature Range: -40°C ~ +70°C

## Dimensions and Weight

No. of Fibres	Construction No. of tubes×No. of fibres in each tube	Number of Fillers	Nominal Loose Tube Diameter mm	Nominal Overall Diameter mm	Nominal Weight kg/km
2	1×2	5	2.2	15.0	290
4	1×4	5	2.2	15.0	290
6	3×2	3	2.2	15.0	290
8	2×4	4	2.2	15.0	290
10	5×2	1	2.2	15.0	290
12	3×4	3	2.2	15.0	290
16	4×4	2	2.2	15.0	290
20	5×4	1	2.2	15.0	290
24	6×4	0	2.2	15.0	290
32	4×8	2	2.2	15.0	290
40	5×8	1	2.2	15.0	290
48	6×8	0	2.2	15.0	290