

FOH/SWA/LSZH Armoured

- Fiber optic cables
- **No corrosivity**
- **Low smoke**
- **Low toxicity**
- **Halogen free**

Description

Applications

Optical fibers are mainly used to **transmit information over long distances and with high bit rates**. The light signal propagates along the core and the signal is reflected on the surface between the core and the cladding. The FOH cable type is based on a loose tube design, in which the fibers are protected. It contains a maximum of **24 monomode or multimode fibers**. **All materials used to manufacture this FOH/SWA/LSZH cable are halogen free. This ensures that non corrosive and low toxic gases are emitted in case of fire. This cable is recommended for use inside buildings where mechanical protection is needed.**

Design

Optical fibers

Jelly

Tube

Ripcord

Reinforcing watertight glass yarns

Inner sheath:

Low Smoke Zero Halogen (LSZH)

Armour:

Galvanised steel wires (SWA)

Protective sheath:

Low Smoke Zero Halogen (LSZH)

Colour: black

UV resistant



Standards

International IEC 60332-3-22 Cat.A;
 IEC 60754-1; IEC 60754-2;
 IEC 61034-1/2

Marking

NEXANS 279 (GIGAlite) - FOH/SWA/LSZH - UT Nber and type of fiber + meter marking

Standards

IEC 794-1-E1

							
Halogen free IEC 60754-1	Mechanical resistance to impacts Good	Fire retardant IEC 60332-3-22	Gases corrosivity IEC 60754-2	Operating temp. range -20 .. 60 °C	Smoke density IEC 61034	Gases toxicity Low	U.V resistance Yes

FOH/SWA/LSZH Armoured

 IEC 794-1-E3
 IEC 794-1-E4
 IEC 794-1-F1

Characteristics

Construction characteristics	
Type of cable	Unitube (UT)
Material of filler / inner sheath	Gel
Protection	Glass yarns
Outer sheath	LSZH
Halogen free	IEC 60754-1
Dimensional characteristics	
Number of tubes	1
Diameter over inner sheath	6.6 mm
Diameter over armour	8.4 mm
Minimum outer diameter	10.8 mm
Maximum outer diameter	12.0 mm
Approximate weight	232 kg/km
Mechanical characteristics	
Crush resistance (IEC 60794-1-E3)	400 N/cm
Maximum tensile load during service	140.0 daN
Mechanical resistance to impacts	Good
Usage characteristics	
Fire retardant	IEC 60332-3-22
Gases corrosivity	IEC 60754-2
Operating temperature, range	-20 .. 60 °C
Smoke density	IEC 61034
Gases toxicity	Low
U.V resistance	Yes

							
Halogen free IEC 60754-1	Mechanical resistance to impacts Good	Fire retardant IEC 60332-3-22	Gases corrosivity IEC 60754-2	Operating temp. range -20 .. 60 °C	Smoke density IEC 61034	Gases toxicity Low	U.V resistance Yes