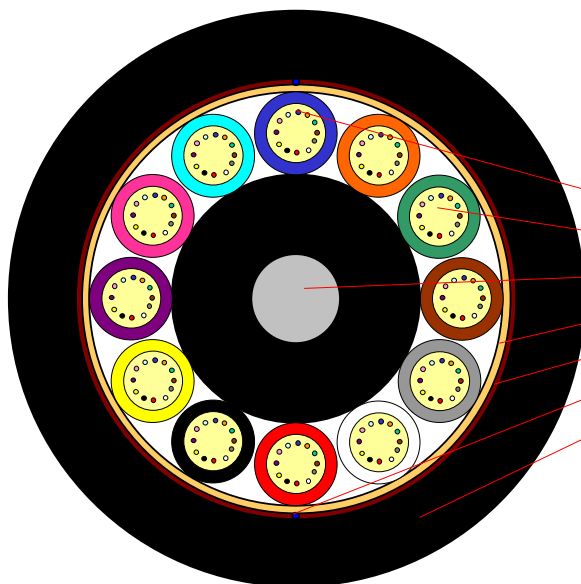


## 12-Element MiDia<sup>®</sup> SAFE Cable

Issue July 2007

according OFS Generic Specification



### Application

Mainly used in outside plant to building transitions and inter-building installations

### Design

- Optical Fibres
- Gel-filled Buffer Tubes (2.0 mm)
- Non-metallic Central Member
- Water Blocking Material
- Non-Metallic Strength Elements
- Ripcord
- Flame Retardant Jacket

### Features

- All Dielectric Cable
- Dry Core Design – Cable core water blocked by means of dry “water swellable” technology - for quicker, cleaner cable prep for jointing
- Individual coloured tubes
- Low smoke/zero halogen (LS0H) rated
- Meets IEC standards for fire performance (**IEC 60332-1 / IEC 60332-3 C / IEC 61034**)
- UV-resistant jacket for reliable service in direct sunlight

Version illustrated is the 144 Fibre Cable

Fibre Count	Tube 1	Tube 2	Tube 3	Tube 4	Tube 5	Tube 6
120	Blue 12F	Orange 12F	Green 12F	Brown 12F	Grey 12F	White 12F
132	Blue 12F	Orange 12F	Green 12F	Brown 12F	Grey 12F	White 12F
144	Blue 12F	Orange 12F	Green 12F	Brown 12F	Grey 12F	White 12F

Fibre Count	Tube 7	Tube 8	Tube 9	Tube 10	Tube 11	Tube 12
120	Red 12F	Black 12F	Yellow 12F	Violet 12F	Filler*	Filler*
132	Red 12F	Black 12F	Yellow 12F	Violet 12F	Rose 12F	Filler*
144	Red 12F	Black 12F	Yellow 12F	Violet 12F	Rose 12F	Aqua 12F

\*Fillers are natural coloured

Alternative tube colour code available on request

Fibre Count	AT-Code**
120	AT-□□□12HT-120
132	AT-□□□12HT-132
144	AT-□□□12HT-144

\*\*Please refer to the OFS AT- Code. The blanks specify the fibre type.

Alternative tube colour code available on request

**Cable Diameter (calc.):** 14,80 mm  
**Cable Weight (calc.):** 225 kg/km

**Colour Abbreviations:** Bl=Blue / Or= Orange / Gn=Green / Bn=Brown / Gr= Grey / Wht= White / Rd=Red / Blk= Black

## 12-Element MiDia® SAFE Cable

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according OFS Generic Specification

### Identification

#### Fibre Colour Code:

1	Blue	5	Grey	9	Yellow
2	Orange	6	White	10	Violet
3	Green	7	Red	11	Rose
4	Brown	8	Black	12	Aqua

#### Sheath Marking:

**OFS OPTICAL CABLE**  
[ID] [MM/YY] [Handset-Sign]  
XXXF [Meter Marking]

*Alternative sheath printing available on request*

### Mechanical Properties and Environmental Behaviour

Tests according to EN 187105 and IEC 60794

	Parameter	Requirement	Value
<b>Tensile Performance:</b> EN 187105-5.5.4 IEC 60794-1-2-E1A and E1B	Long term load	- No attenuation increase* - No fibre strain	Load: 1000 N
	Short term load, during installation	- No changes in attenuation before versus after load - Max. fibre strain 0.33%	Load: 2700 N
<b>Crush Performance:</b> EN 187105-5.5.3 IEC 60794-1-2-E3	Long term load	- No attenuation increase*	Load (Plate / Plate): 500 N
	Short term load	- No changes in attenuation before versus after load - No damage**	Load (Plate / Plate): 2000 N
<b>Bending Performance:</b> EN 187105-5.5.1 IEC 60794-1-2-E11	Handling fixed installed	- No attenuation increase*	Bend radius: 10 x D
	During installation (under load)	- No changes in attenuation before versus after load	Bend radius: 20 x D <i>D is the cable diameter</i>
<b>Temperatures:</b> EN 187105-5.6.1 IEC 60794-1-2-F1	Operation	Single-mode Fibres:	-40 to +70°C
	Installation	- No attenuation increase*	-15 to +60°C
	Storage/Shipping		-40 to +70°C
	Operation	Multimode Fibres:	-30 to +70°C
	Installation	- No attenuation increase***	-15 to +60°C
	Storage/Shipping		-30 to +70°C

\* No changes in attenuation means that any changes in measurement value, either positive or negative within the uncertainty of measurement shall be ignored. The total uncertainty of measurement shall be less than of equal to 0.05 dB for Single-mode Fibres and 0.2 dB for Multimode Fibres.

\*\* Mechanical damage – when examined visually without magnification, there shall be no evidence of damage to the sheath. The imprint of plates will not be considered as damage.

\*\*\* No changes in attenuation means that any changes in measurement value, either positive or negative within the uncertainty of measurement shall be ignored. The total uncertainty of measurement shall be less than of equal to +/- 0.2 dB for 90 % and +/- 0.3 dB for 100 % of the fibres.

### Shipping Information

Cable Length	Drum Dimensions (approx.)		Shipping Weight (calc.)	
	Diameter(battened)	Width	Without lagging	With lagging
2000 m	1250 mm	790 mm	500 kg	530 kg
4000 m	1600 mm	1055 mm	950 kg	1010 kg
6000 m	1750 mm	1055 mm	1390 kg	1520 kg
8000 m	2050 mm	1100 mm	1865 kg	1990 kg

*The shipping information are given for one-way reels. Reusable reels are available on request.*

The information is believed to be accurate at time of issue. OFS reserves the right to improve, enhance and modify the features and specifications of OFS products without prior notification. Please ensure you have the latest version of the data sheet.

This data sheet is property of OFS.

For additional information please contact your sales representative. You can also visit our website at <http://www.ofsoptics.com>.

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