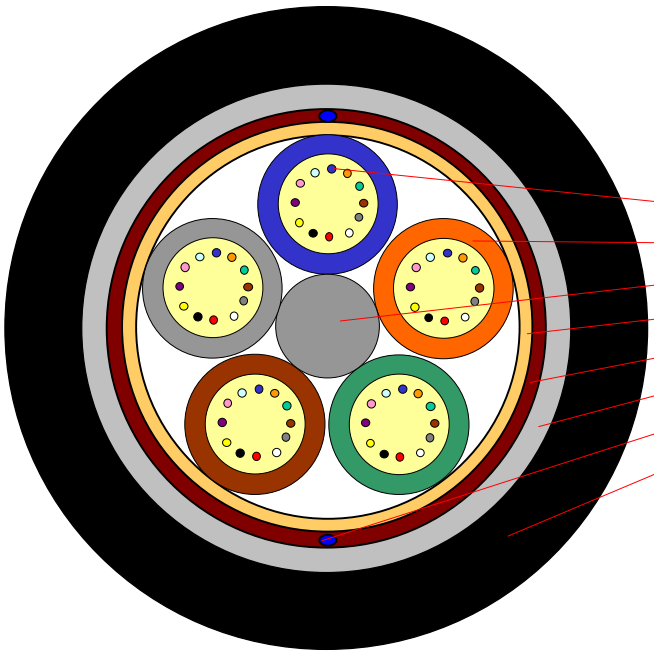
Loose Tube Fibre Optic Outdoor Cable

Dry Core Outdoor Cable

5-Element LAP Cable

Issue February 2003
according **OFS Generic Specification**



Application

Mainly used in Duct-Installation (HD-PE Tubes) and installed by Cable Blowing or Pulling

Design

- Optical Fibres
- Gel-filled Buffer Tubes (2.5 mm)
- Non-metallic Central Member
- Water Blocking Material
- Non-metallic Strength Elements
- **L**aminated **A**luminium **P**olyethylene (LAP)
- Ripcord
- PE-Jacket

Features

- LAP for additional moisture protection in metropolitan and long-haul networks
- Dry Core Design – Cable core water blocked by means of dry "water swellable" technology - for quicker, cleaner cable prep for jointing
- Individual coloured tubes

Version illustrated is the 60 Fibre Cable

Fibre Count	Tube 1	Tube 2	Tube 3	Tube 4	Tube 5	AT-Code**
12	Blue 12F	Filler*	Filler*	Filler*	Filler*	AT-□□□T2TT-012
24	Blue 8F	Orange 8F	Green 8F	Filler*	Filler*	AT-□□□T2T8-024
	Blue 12F	Orange 12F	Filler*	Filler*	Filler*	AT-□□□T2TT-024
32	Blue 8F	Orange 8F	Green 8F	Brown 8F	Filler*	AT-□□□T2T8-032
36	Blue 12F	Orange 12F	Green 12F	Filler*	Filler*	AT-□□□T2TT-036
40	Blue 8F	Orange 8F	Green 8F	Brown 8F	Grey 8F	AT-□□□T2T8-040
48	Blue 12F	Orange 12F	Green 12F	Brown 12F	Filler*	AT-□□□T2TT-048
60	Blue 12F	Orange 12F	Green 12F	Brown 12F	Grey 12F	AT-□□□T2TT-060

*Fillers are natural coloured **Please refer to the OFS AT- Code. The blanks specify the fibre type.

Alternative tube colour code available on request

Cable Diameter (calc.): 11,80 mm
Cable Weight (calc.): 110 kg/km

Loose Tube Fibre Optic Outdoor Cable

Dry Core Outdoor Cable

5-Element LAP Cable

Issue February 2003
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
Tensile Performance: 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
Crush Performance: 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
Bending Performance: 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 *D is cable diameter*
Temperatures: EN 187105-5.6.1 IEC 60794-1-2-F1	Operation Installation Storage/Shipping	- No attenuation increase*	-40 to +70°C -15 to +60°C -40 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.

** 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.

Shipping Information

Cable Length	Drum Dimensions (approx.)		Shipping Weight (calc.)	
	Diameter(battened)	Width	Without lagging	With lagging
2000 m	**1500 mm**	**890 mm**	**373 kg**	**423 kg**
4000 m	**1800 mm**	**1090 mm**	**685 kg**	**757 kg**
6000 m	**1800 mm**	**1090 mm**	**905 kg**	**977 kg**

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

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

Telephone: +49 (0) 228 7489 201

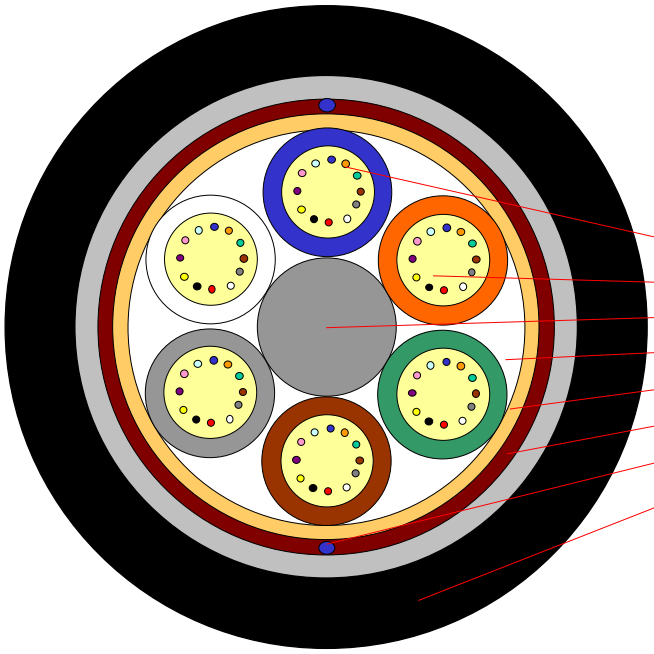
Email: cableinfo@ofsoptics.com

Loose Tube Fibre Optic Outdoor Cable

Dry Core Outdoor Cable

6-Element LAP Cable

Issue February 2003
according **OFS Generic Specification**



Application

Mainly used in Duct-Installation (HD-PE Tubes) and installed by Cable Blowing or Pulling

Design

- Optical Fibres
- Gel-filled Buffer Tubes (2.5 mm)
- Non-metallic Central Member
- Water Blocking Material
- Non-metallic Strength Elements
- **L**aminated **A**luminium **P**olyethylene (LAP)
- Ripcord
- PE-Jacket

Features

- LAP for additional moisture protection in metropolitan and long-haul networks
- Dry Core Design – Cable core water blocked by means of dry "water swellable" technology - for quicker, cleaner cable prep for jointing
- Individual coloured tubes

Version illustrated is the 72 Fibre Cable

Fibre Count	Tube 1	Tube 2	Tube 3	Tube 4	Tube 5	Tube 6	AT-Code**
48	Blue 8F	Orange 8F	Green 8F	Brown 8F	Grey 8F	White 8F	AT-□□□T2T8-048
72	Blue 12F	Orange 12F	Green 12F	Brown 12F	Grey 12F	White 12F	AT-□□□T2TT-072

*Fillers are natural coloured **Please refer to the OFS AT- Code. The blanks specify the fibre type.

Alternative tube colour code available on request

Cable Diameter (calc.): **12,60 mm**
Cable Weight (calc.): **126 kg/km**

Loose Tube Fibre Optic Outdoor Cable

Dry Core Outdoor Cable

6-Element LAP Cable

Issue February 2003
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
Tensile Performance: 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
Crush Performance: 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
Bending Performance: 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 *D is cable diameter*
Temperatures: EN 187105-5.6.1 IEC 60794-1-2-F1	Operation Installation Storage/Shipping	- No attenuation increase*	-40 to +70°C -15 to +60°C -40 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.

** 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.

Shipping Information

Cable Length	Drum Dimensions (approx.)		Shipping Weight (calc.)	
	Diameter(battened)	Width	Without lagging	With lagging
2000 m	**1500 mm**	**890 mm**	**405 kg**	**455 kg**
4000 m	**1800 mm**	**1090 mm**	**749 kg**	**821 kg**
6000 m	**1800 mm**	**1090 mm**	**1001 kg**	**1073 kg**

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

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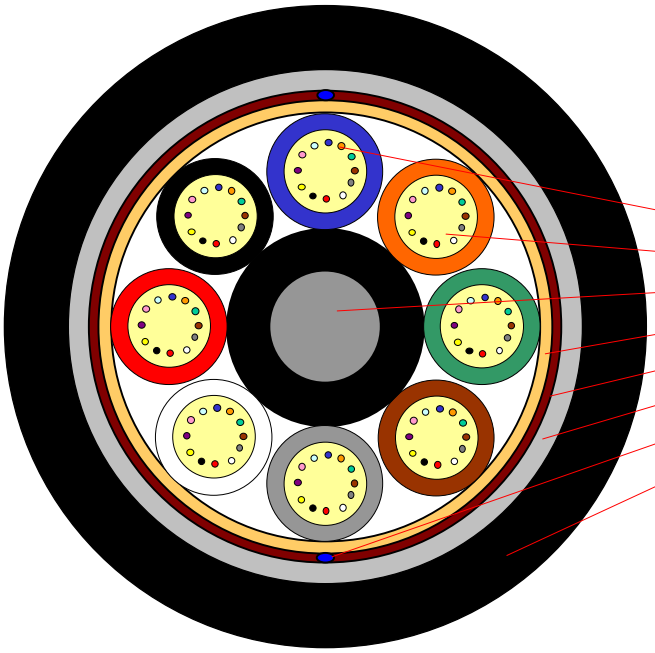
Loose Tube Fibre Optic Outdoor Cable

Dry Core Outdoor Cable

8-Element LAP Cable

Issue February 2003
according **OFS Generic Specification**



Application

Mainly used in Duct-Installation (HD-PE Tubes) and installed by Cable Blowing or Pulling

Design

- Optical Fibres
- Gel-filled Buffer Tubes (2.5 mm)
- Non-metallic Central Member
- Water Blocking Material
- Non-metallic Strength Elements
- **L**aminated **A**luminium **P**olyethylene (LAP)
- Ripcord
- PE-Jacket

Features

- LAP for additional moisture protection in metropolitan and long-haul networks
- Dry Core Design – Cable core water blocked by means of dry "water swellable" technology - for quicker, cleaner cable prep for jointing
- Individual coloured tubes

Version illustrated is the 96 Fibre Cable

Fibre Count	Tube 1	Tube 2	Tube 3	Tube 4	Tube 5	Tube 6	Tube 7	Tube 8	AT-Code**
56	BL 8F	OR 8F	GN 8F	BR 8F	SL 8F	WH 8F	RD 8F	Filler*	AT-□□□T5T8-056
64	BL 8F	OR 8F	GN 8F	BR 8F	SL 8F	WH 8F	RD 8F	BK 8F	AT-□□□T5T8-064
84	BL 12F	OR 12F	GN 12F	BR 12F	SL 12F	WH 12F	RD 12F	Filler*	AT-□□□T5TT-084
96	BL 12F	OR 12F	GN 12F	BR 12F	SL 12F	WH 12F	RD 12F	BK 12F	AT-□□□T5TT-096

*Fillers are natural coloured **Please refer to the OFS AT- Code. The blanks specify the fibre type.

Alternative tube colour code available on request

Cable Diameter (calc.): **14,20 mm**
Cable Weight (calc.): **160 kg/km**

Colour Abbreviations: BL=Blue / OR= Orange / GN=Green / BR=Brown / SL= Slate or Grey / WH= White / RD=Red / BK= Black

8-Element LAP Cable

Issue February 2003
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
Tensile Performance: 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: 1.5 x W *W is the weight of the cable in N*
Crush Performance: 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
Bending Performance: 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 *D is the cable diameter*
Temperatures: EN 187105-5.6.1 IEC 60794-1-2-F1	Operation Installation Storage/Shipping	- No attenuation increase*	-40 to +70°C -15 to +60°C -40 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.

** 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.

Shipping Information

Cable Length	Drum Dimensions (approx.)		Shipping Weight (calc.)	
	Diameter(battened)	Width	Without lagging	With lagging
2000 m	**1800 mm**	**1090 mm**	**473 kg**	**523 kg**
4000 m	**1800 mm**	**1090 mm**	**885 kg**	**957 kg**
6000 m	**1950 mm**	**1140 mm**	**1245 kg**	**1331 kg**

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

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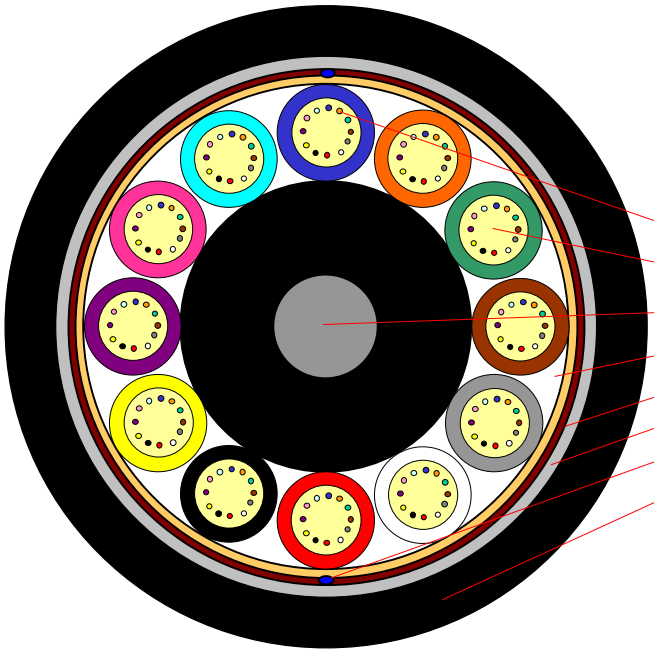
Loose Tube Fibre Optic Outdoor Cable

Dry Core Outdoor Cable

12-Element LAP Cable

Issue February 2003
according **OFS Generic Specification**



Application

Mainly used in Duct-Installation (HD-PE Tubes) and installed by Cable Blowing or Pulling

Design

- Optical Fibres
- Gel-filled Buffer Tubes (2.5 mm)
- Non-metallic Central Member
- Water Blocking Material
- Non-metallic Strength Elements
- **L**aminated **A**luminium **P**olyethylene (LAP)
- Ripcord
- PE-Jacket

Features

- LAP for additional moisture protection in metropolitan and long-haul networks
- Dry Core Design – Cable core water blocked by means of dry "water swellable" technology - for quicker, cleaner cable prep for jointing
- Individual coloured tubes

Version illustrated is the 144 Fibre Cable

Fibre Count	Tube 1	Tube 2	Tube 3	Tube 4	Tube 5	Tube 6
108	Blue 12F	Orange 12F	Green 12F	Brown 12F	Grey 12F	White 12F
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
108	Red 12F	Black 12F	Yellow 12F	Filler*	Filler*	Filler*
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**
108	AT-□□□T5TT-108
120	AT-□□□T5TT-120
132	AT-□□□T5TT-132
144	AT-□□□T5TT-144

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

Cable Diameter (calc.): **17,40 mm**
Cable Weight (calc.): **235 kg/km**

Loose Tube Fibre Optic Outdoor Cable

Dry Core Outdoor Cable

12-Element LAP Cable

Issue February 2003
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
Tensile Performance: 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: 1.5 x W *W is the weight of the cable in N*
Crush Performance: 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
Bending Performance: 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 *D is the cable diameter*
Temperatures: EN 187105-5.6.1 IEC 60794-1-2-F1	Operation Installation Storage/Shipping	- No attenuation increase*	-40 to +70°C -15 to +60°C -40 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.

** 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.

Shipping Information

Cable Length	Drum Dimensions (approx.)		Shipping Weight (calc.)	
	Diameter(battened)	Width	Without lagging	With lagging
2000 m	**1800 mm**	**1090 mm**	**715 kg**	**787 kg**
4000 m	**1950 mm**	**1140 mm**	**1225 kg**	**1311 kg**
6000 m	**2550 mm**	**1490 mm**	**1860 kg**	**1995 kg**

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

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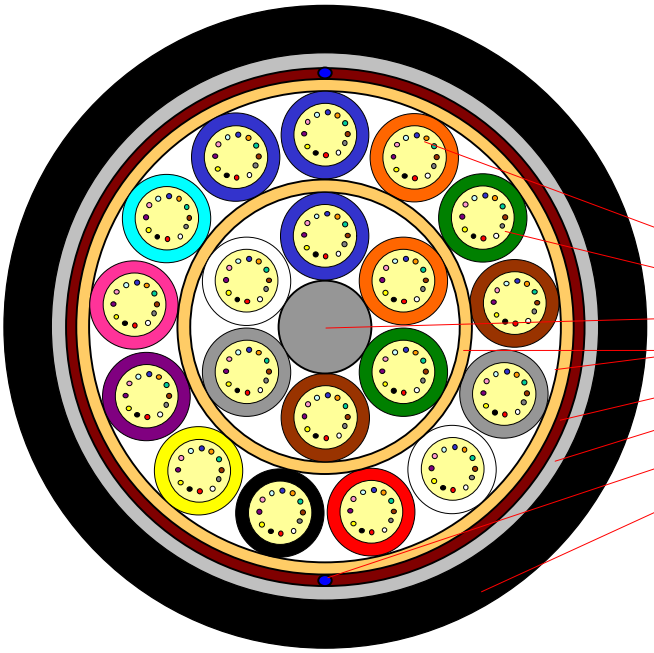
Loose Tube Fibre Optic Outdoor Cable

Dry Core Outdoor Cable

19-Element LAP Cable

Issue February 2003
according **OFS Generic Specification**



Application

Mainly used in Duct-Installation (HD-PE Tubes) and installed by Cable Blowing or Pulling

Design

- Optical Fibres
- Gel-filled Buffer Tubes (2.5 mm)
- Non-metallic Central Member
- Water Blocking Material
- Non-metallic Strength Elements
- **L**aminated **A**luminium **P**olyethylene (LAP)
- Ripcord
- PE-Jacket

Features

- LAP for additional moisture protection in metropolitan and long-haul networks
- Dry Core Design – Cable core water blocked by means of dry "water swellable" technology - for quicker, cleaner cable prep for jointing
- Two Layer Design for a smaller cable diameter and less cable weight
- Individual colored tubes

Version illustrated is the 228 Fibre Cable

Fibre Count	Tube 1	Tube 2	Tube 3	Tube 4	Tube 5	Tube 6	AT-Code**
156	Blue	Orange	Green	Brown	Grey	White	AT-□□□T2TT-156
168	Blue	Orange	Green	Brown	Grey	White	AT-□□□T2TT-168
180	Blue	Orange	Green	Brown	Grey	White	AT-□□□T2TT-180
192	Blue	Orange	Green	Brown	Grey	White	AT-□□□T2TT-192
204	Blue	Orange	Green	Brown	Grey	White	AT-□□□T2TT-204
216	Blue	Orange	Green	Brown	Grey	White	AT-□□□T2TT-216
228	Blue	Orange	Green	Brown	Grey	White	AT-□□□T2TT-228

Fibre Count	Tube 7	Tube 8	Tube 9	Tube 10	Tube 11	Tube 12	Tube 13	Tube 14	Tube 15	Tube 16	Tube 17	Tube 18	Tube 19
156	Blue	Orange	Green	Brown	Grey	White	Red	Filler*	Filler*	Filler*	Filler*	Filler*	Filler*
168	Blue	Orange	Green	Brown	Grey	White	Red	Black	Filler*	Filler*	Filler*	Filler*	Filler*
180	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Filler*	Filler*	Filler*	Filler*
192	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Filler*	Filler*	Filler*
204	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Rose	Filler*	Filler*
216	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Rose	Aqua	Filler*
228	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Rose	Aqua	Blue

*Fillers are natural coloured

Alternative tube colour code available on request

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

Cable Diameter (calc.): **18,10 mm**
Cable Weight (calc.): **245 kg/km**

19-Element LAP Cable

Issue February 2003
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
Tensile Performance: 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. fiber strain 0.33%	Load: 2700 N
Crush Performance: 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
Bending Performance: 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 *D is the cable diameter*
Temperatures: EN 187105-5.6.1 IEC 60794-1-2-F1	Operation Installation Storage/Shipping	- No attenuation increase*	-30 to +70°C -15 to +60°C -40 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.

** 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.

Shipping Information

Cable Length	Drum Dimensions (approx.)		Shipping Weight (calc.)	
	Diameter(battened)	Width	Without lagging	With lagging
2000 m	**1800 mm**	**1090 mm**	**735 kg**	**807 kg**
4000 m	**1950 mm**	**1140 mm**	**1265 kg**	**1351 kg**

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

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

Telephone: +49 (0) 228 7489 201

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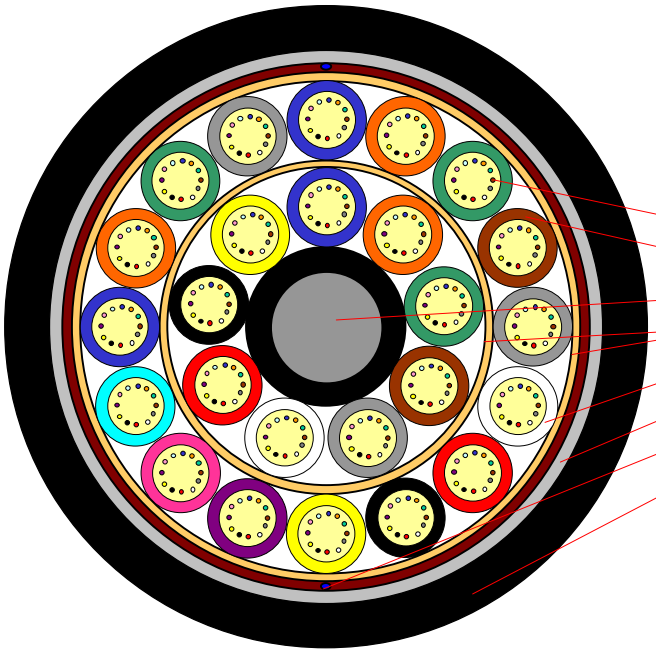
Loose Tube Fibre Optic Outdoor Cable

Dry Core Outdoor Cable

25-Element LAP Cable

Issue February 2003
according **OFS Generic Specification**



Application

Mainly used in Duct-Installation (HD-PE Tubes) and installed by Cable Blowing or Pulling

Design

- Optical Fibres
- Gel-filled Buffer Tubes (2.5 mm)
- Non-metallic Central Member
- Water Blocking Material
- Non-metallic Strength Elements
- **L**aminated **A**luminium **P**olyethylene (LAP)
- Ripcord
- PE-Jacket

Features

- LAP for additional moisture protection in metropolitan and long-haul networks
- Dry Core Design – Cable core water blocked by means of dry "water swellable" technology - for quicker, cleaner cable prep for jointing
- Individual coloured tubes

Version illustrated is the 300 Fibre Cable

Inner Layer (9 Tubes)

Fibre Count	Tube 1	Tube 2	Tube 3	Tube 4	Tube 5	Tube 6	Tube 7	Tube 8	Tube 9
240	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow
264	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow
288	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow
300	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow

Outer Layer (16 Tubes)

Fibre Count	Tube 10	Tube 11	Tube 12	Tube 13	Tube 14	Tube 15	Tube 16	Tube 17
240	Blue	Orange	Green	Brown	Grey	White	Red	Black
264	Blue	Orange	Green	Brown	Grey	White	Red	Black
288	Blue	Orange	Green	Brown	Grey	White	Red	Black
300	Blue	Orange	Green	Brown	Grey	White	Red	Black

Fibre Count	Tube 18	Tube 19	Tube 20	Tube 21	Tube 22	Tube 23	Tube 24	Tube 25
240	Yellow	Violet	Rose	Filler*	Filler*	Filler*	Filler*	Filler*
264	Yellow	Violet	Rose	Aqua	Blue	Filler*	Filler*	Filler*
288	Yellow	Violet	Rose	Aqua	Blue	Orange	Green	Filler*
300	Yellow	Violet	Rose	Aqua	Blue	Orange	Green	Brown

*Fillers are natural coloured

Fibre Count	AT-Code**
240	AT-□□□TFTT-240
264	AT-□□□TFTT-264

**Please refer to the OFS AT- Code.

Fibre Count	AT-Code**
288	AT-□□□TFTT-288
300	AT-□□□TFTT-300

The blanks specify the fibre type.

Cable Diameter (calc.): **20,60 mm**
Cable Weight (calc.): **320 kg/km**

Loose Tube Fibre Optic Outdoor Cable

Dry Core Outdoor Cable

25-Element LAP Cable

Issue February 2003
according **OFS Generic Specification**

Identification

Fiber 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
Tensile Performance: 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: 1.0 x W *W is the weight of the cable in N*
Crush Performance: 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
Bending Performance: 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 *D is the cable diameter*
Temperatures: EN 187105-5.6.1 IEC 60794-1-2-F1	Operation Installation Storage/Shipping	- No attenuation increase*	-30 to +70°C -15 to +60°C -40 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.

** 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.

Shipping Information

Cable Length	Drum Dimensions (approx.)		Shipping Weight (calc.)	
	Diameter(battened)	Width	Without lagging	With lagging
2000 m	**1800 mm**	**1090 mm**	**885 kg**	**957 kg**
4000 m	**2550 mm**	**1490 mm**	**1730 kg**	**1865 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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