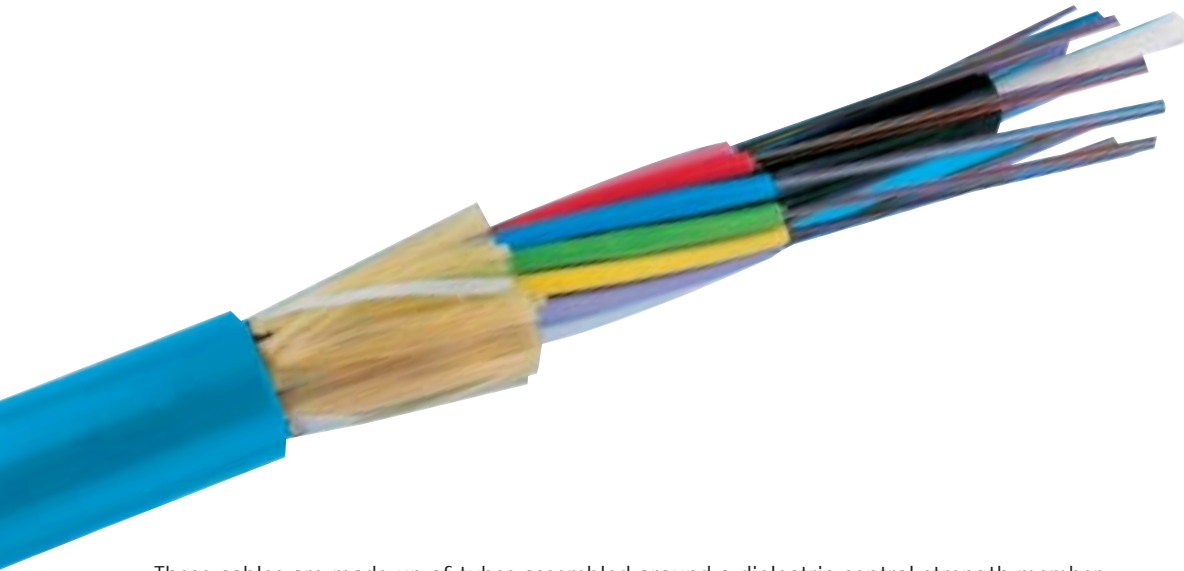


ACOPTIC®

ACOME Loose Tube range



These cables are made up of tubes assembled around a dielectric central strength member. Non-metallic outer strength members are added for those users requiring increased tensile strength. The Loose Tube structure leaves the fibres free inside a protective tube. The fibres are thus not subjected to any external stresses. The cable is sheathed with an HDPE outer jacket for use into ducts and an LSOH jacket for internal/external applications (pulling over short distances). Designed for use into ducts, these cables are longitudinally waterproofed by means of elements that swell in the presence of water. Cables based on the Loose Tube structure are able to withstand severe environments.

Application

Suitable for use in:

- very severe environments
- cable trays
- ducts and concrete pipes

Advantages of the ACOME loose tube range

- Solid, watertight cable with high compressive resistance
- Can be installed using pulling methods, as well as blowing or carrying techniques
- High fibre count for a reduced size
- Longitudinal waterproofing using water swellable products: dry cable construction.

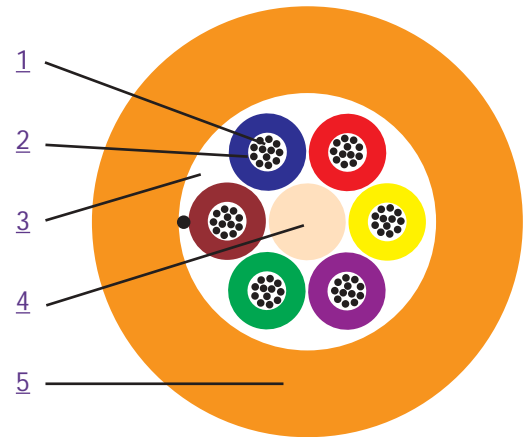
ACOPTIC®

ACOME Loose Tube range

Dielectric cables for blowing into ducts 1 to 216 optical fibres

Description

- 1 Optical fibre : optical fibre
- 2 Tube : polyester
- 3 Waterproofing : water swellable elements
- 4 Central strength member : non-metallic
- 5 Outer jacket : LSOH or HDPE



ACOME references

Reference	No. of fibres	Jacket	Distribution of fibres
1000 series	1 to 72	HDPE	6 tubes of 6, 8 or 12 fibres
1001 series	1 to 96	HDPE	8 tubes of 6, 8 or 12 fibres
1003 series	1 to 144	HDPE	12 tubes of 6, 8 or 12 fibres
1004 series	1 to 216	HDPE	18 tubes of 6, 8 or 12 fibres
1039 series	1 to 48	HDPE	6 tubes of 2, 4, 6 or 8 fibres
1041 series	1 to 80	HDPE	10 tubes of 2, 4, 6 or 8 fibres
1044 series	1 to 48	LSOH	6 tubes of 2, 4, 6 or 8 fibres
1049 series	1 to 72	LSOH	6 tubes of 6, 8 or 12 fibres
1050 series	1 to 96	LSOH	8 tubes of 6, 8 or 12 fibres
1052 series	1 to 144	LSOH	12 tubes of 6, 8 or 12 fibres

General cable characteristics

	Characteristics	Test method
Temperature range transport and storage installation operation	-40°C to +70°C -5°C to +50°C -30°C to +60°C	IEC 60794-1-F1
Allowable tension Tmax fibre elongation ≤ 0.3%	1 800 to 2 000 N	IEC 60794-1-E1
Crush resistance plate/plate	250 to 300 N/cm	IEC 60794-1-E3
Min. bending radius static	150 to 250 mm	IEC 60794-1-E11 Test 2
Min. kink diameter	100 mm	IEC 60794-1-E10
Nominal outer jacket diameter	10.6 mm to 17 mm	
Packaging	2 100 m, 4 100 m and 6 100 m drums	
Nominal weight of cable	91 to 237 kg/km	
Jacket marking	Week – Year – ACOME – no. fibres X – product ref + metric	

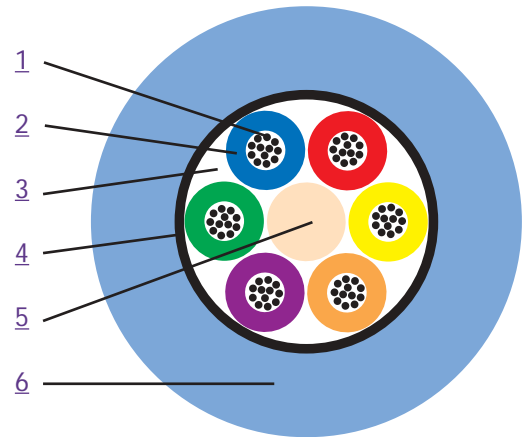
ACOPTIC®

ACOME Loose Tube range

Dielectric cables for pulling into ducts 1 to 216 optical fibres

Description

- 1 Optical fibre : optical fibre
- 2 Tube : polyester
- 3 Waterproofing : water swellable elements
- 4 Strength members : non-metallic reinforcing fibres
- 5 Central strength member : non-metallic
- 6 Outer jacket : LSOH or HDPE



ACOME references

Reference	No. of fibres	Jacket	Distribution of fibres
1012 series	1 to 48	HDPE	6 tubes of 4, 6 or 8 fibres
1015 series	1 to 96	HDPE	12 tubes of 4, 6 or 8 fibres
1017 series	1 to 72	HDPE	6 tubes of 6, 8 or 12 fibres
1018 series	1 to 96	HDPE	8 tubes of 6, 8 or 12 fibres
1020 series	1 to 144	HDPE	12 tubes of 6, 8 or 12 fibres
1021 series	1 to 216	HDPE	18 tubes of 6, 8 or 12 fibres
1089 series	1 to 72	LSOH	6 tubes of 6, 8 or 12 fibres
1090 series	1 to 96	LSOH	8 tubes of 6, 8 or 12 fibres
1092 series	1 to 144	LSOH	12 tubes of 6, 8 or 12 fibres

General cable characteristics

	Characteristics	Test method
Temperature range transport and storage installation operation	-40°C to +70°C -5°C to +50°C -40°C to +70°C	IEC 60794-1-F1
Allowable tension Tmax fibre elongation ≤ 0.3%	3000 to 3500 N	IEC 60794-1-E1
Crush resistance plate/plate	250 to 300 N/cm	IEC 60794-1-E3
Min. bending radius static	150 to 250 mm	IEC 60794-1-E11 Test 2
Min. kink diameter	100 to 170 mm	IEC 60794-1-E10
Nominal outer jacket diameter	11 mm to 17.2 mm	
Packaging	2 100 m, 4 100 m, 6 100 m and 8 200 m drums	
Nominal weight of cable	100 to 262 kg/km	
Jacket marking	Week – Year – ACOME – no. fibres X – product ref + metric	



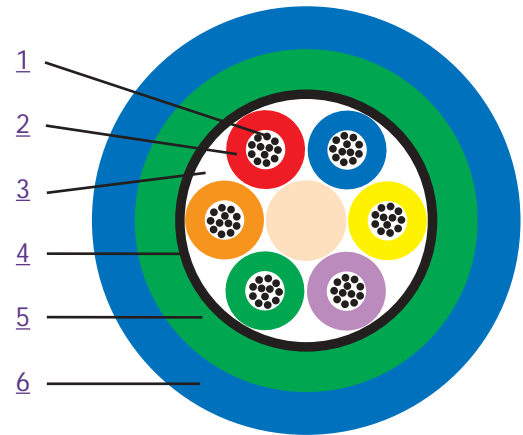
ACOPTIC®

ACOME Loose Tube range

Metal armoured cables for indoor/outdoor application 1 to 216 optical fibres

Description

- 1 Optical fibre : optical fibre
- 2 Tube : polyester
- 3 Waterproofing : water swellable elements
- 4 Strength members : dielectric reinforcing yarns
- 5 Armour : corrugated steel-copolymer
- 6 Outer jacket : LSOH



ACOME references

Reference	No. of fibres	Jacket	Distribution of fibres
1028 series	1 to 72	LSOH	6 tubes of 6, 8 or 12 fibres
1065 series	1 to 144	LSOH	12 tubes of 6, 8 or 12 fibres

For other capacities, please contact us

General cable characteristics

	Characteristics	Test method
Temperature range transport and storage installation operation	-40°C to +70°C -5°C to +50°C -40°C to +70°C	IEC 60794-1-F1
Allowable tension Tmax fibre elongation ≤ 0.3%	3 000 N	IEC 60794-1-E1
Crush resistance plate/plate	350 N/cm	IEC 60794-1-E3
Min. bending radius static	280 to 400 mm	IEC 60794-1-E11 Test 2
Min. kink diameter	140 to 200 mm	IEC 60794-1-E10
Nominal outer jacket diameter	14 mm to 19.2 mm	
Packaging	2 100 m, 4 100 m, 6 100 m and 8 200 m drums	
Nominal weight of cable	219 to 368 kg/km	
Jacket marking	Week – Year – ACOME - no. fibres X – product ref + metric	

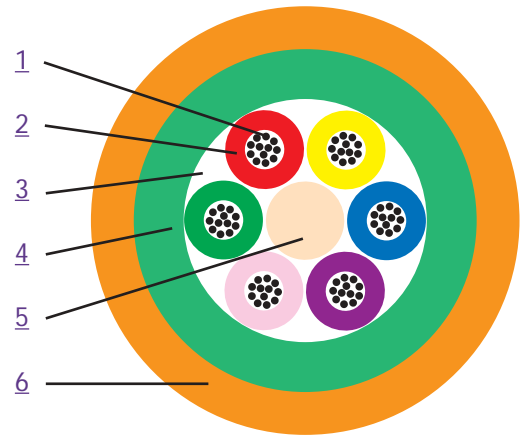
ACOPTIC®

ACOME Loose Tube range

Dielectric cables with enhanced anti-rodent protection 1 to 216 optical fibres

Description

- 1 Optical fibre : optical fibre
- 2 Tube : polyester
- 3 Waterproofing : water swellable elements
- 4 Strength members : hot-melt impregnated glass yarns (anti-rodent protection)
- 5 Central strength member : non-metallic
- 6 Outer jacket : LSOH or HDPE



ACOME references

Reference	No. of fibres	Jacket	Distribution of fibres
1055 series	1 to 72	HDPE	6 tubes of 6, 8 or 12 fibres
1056 series	1 to 96	HDPE	8 tubes of 6, 8 or 12 fibres
1058 series	1 to 144	HDPE	12 tubes of 6, 8 or 12 fibres
1067 series	1 to 48	HDPE	6 tubes of 4, 6 or 8 fibres
1078 series	1 to 72	LSOH	6 tubes of 6, 8 or 12 fibres
1079 series	1 to 96	LSOH	8 tubes of 6, 8 or 12 fibres
1081 series	1 to 144	LSOH	12 tubes of 6, 8 or 12 fibres

For other capacities, please contact us

General cable characteristics

	Characteristics	Test method
Temperature range transport and storage installation operation	-40°C to +70°C -5°C to +50°C -40°C to +70°C	IEC 60794-1-F1
Allowable tension Tmax fibre elongation ≤ 0.3%	8000 N	IEC 60794-1-E1
Crush resistance plate/plate	550 to 600 N/cm	IEC 60794-1-E3
Min. bending radius static	190 to 220 mm	IEC 60794-1-E11 Test 2
Min. kink diameter	130 to 150 mm	IEC 60794-1-E10
Nominal outer jacket diameter	12.8 mm to 18.5 mm	
Packaging	2 100 m, 4 100 m, 6 100 m and 8 200 m drums	
Nominal weight of cable	156 to 323 kg/km	
Jacket marking	Week – Year – ACOME - no. fibres X – product ref + metric	



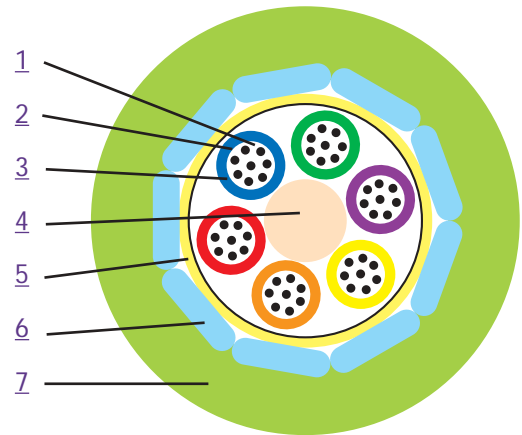
ACOPTIC®

ACOME Loose Tube range

Dielectric multi-use cables for outdoor application 1 to 216 optical fibres

Description

- 1 Optical fibre : optical fibre
- 2 Tube : polyester
- 3 Waterproofing : water swellable elements
- 4 Central strength member : non-metallic
- 5 Intermediate sheath : PE
- 6 Strength members : stranded flat FRP
- 7 Outer jacket : HDPE



ACOME references

Reference	No. of fibres	Jacket	Distribution of fibres
1055 series	1 to 72	HDPE	6 tubes of 6, 8 or 12 fibres
1056 series	1 to 96	HDPE	8 tubes of 6, 8 or 12 fibres
1056 series	1 to 48	HDPE	6 tubes of 2, 4, 6 or 8 fibres

For other capacities, please contact us

General cable characteristics

	Characteristics	Test method
Temperature range transport and storage installation operation	-40°C to +70°C -5°C to +50°C -40°C to +70°C	IEC 60794-1-F1
Allowable tension Tmax fibre elongation ≤ 0.3%	10 to 13 kN	IEC 60794-1-E1
Crush resistance plate/plate	450 N/cm	IEC 60794-1-E3
Min. bending radius static	250 to 300 mm	IEC 60794-1-E11 Test 2
Min. kink diameter	100 to 160 mm	IEC 60794-1-E10
Nominal outer jacket diameter	15.5 mm to 18.2 mm	
Packaging	2 100 m, 4 100 m, 6 100 m and 8 200 m drums	
Nominal weight of cable	223 to 283 kg/km	
Jacket marking	Week – Year – ACOME - no. fibres X – product ref + metric	

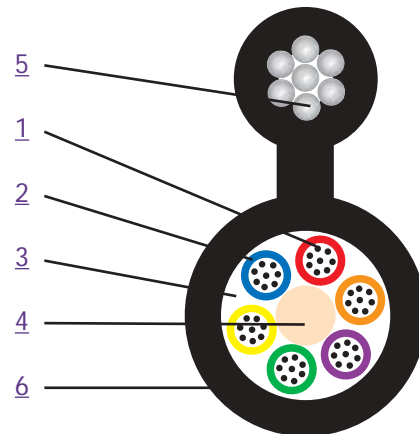
ACOPTIC®

ACOME Loose Tube range

Aerial figure 8 with metal suspension member 1 to 216 optical fibres

Description

- 1 Optical fibre : optical fibre
- 2 Tube : polyester
- 3 Waterproofing : water swellable elements
- 4 Central strength member : non-metallic
- 5 Suspension member : Steel strand
- 6 Outer jacket : HDPE



ACOME references

Reference	No. of fibres	Jacket	Distribution of fibres
1029 series	1 to 48	HDPE	6 tubes of 2, 4, 6 or 8 fibres
1034 series	1 to 72	HDPE	6 tubes of 6, 8 or 12 fibres
1035 series	1 to 96	HDPE	8 tubes of 6, 8 or 12 fibres

For other capacities, please contact us

General cable characteristics

	Characteristics	Test method
Temperature range transport and storage installation operation	-40°C to +70°C -5°C to +50°C -40°C to +70°C	IEC 60794-1-F1
Allowable tension Tmax fibre elongation ≤ 0.3%	9 000N	IEC 60794-1-E1
Crush resistance plate/plate	300 N/cm	IEC 60794-1-E3
Min. bending radius static	150 to 200 mm	IEC 60794-1-E11 Test 2
Min. kink diameter	100 mm	IEC 60794-1-E10
Nominal outer jacket dimensions	Width: 10.7 mm to 13.4 mm Height: 18.7 to 21.4 mm	
Packaging	2 100 m, 4 100 m, 6 100 m and 8 200 m drums	
Nominal weight of cable	161 to 211 kg/km	
Jacket marking	Week – Year – ACOME - no. fibres X – product ref + metric	



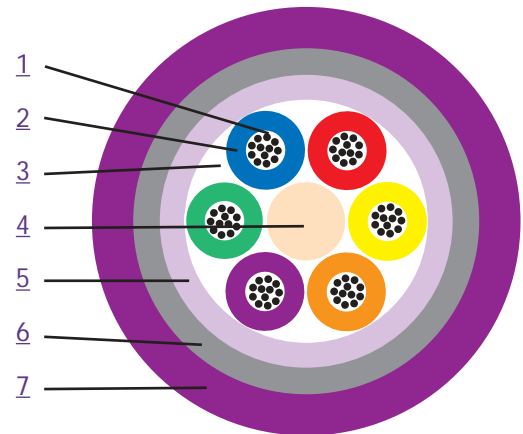
ACOPTIC®

ACOME Loose Tube range

Metal-armoured cables for direct burial 1 to 216 optical fibres

Description

- 1 Optical fibre : optical fibre
- 2 Tube : polyester
- 3 Waterproofing : water swellable elements
- 4 Central strength member : non-metallic
- 5 Intermediate sheath : PE
- 6 Armour : corrugated steel
- 7 Outer jacket : HDPE



ACOME references

Reference	No. of fibres	Jacket	Distribution of fibres
1022 series	1 to 72	HDPE	6 tubes of 6, 8 or 12 fibres
1023 series	1 to 96	HDPE	8 tubes of 6, 8 or 12 fibres
1025 series	1 to 144	HDPE	12 tubes of 6, 8 or 12 fibres
1026 series	1 to 216	HDPE	18 tubes of 6, 8 or 12 fibres
1118 series	1 to 48	HDPE	6 tubes of 8 fibres

For other capacities, please contact us

General cable characteristics

	Characteristics	Test method
Temperature range transport and storage installation operation	-40°C to +70°C -5°C to +50°C -40°C to +70°C	IEC 60794-1-F1
Allowable tension Tmax fibre elongation ≤ 0.3%	3000 to 6000 N	IEC 60794-1-E1
Crush resistance plate/plate	450 N/cm	IEC 60794-1-E3
Min. bending radius static	290 to 400 mm	IEC 60794-1-E11 Test 2
Min. kink diameter	150 to 200 mm	IEC 60794-1-E10
Nominal outer jacket diameter	14.7 mm to 20.8 mm	
Packaging	2 100 m, 4 100 m, 6 100 m and 8 200 m drums	
Nominal weight of cable	250 to 440 kg/km	
Jacket marking	Week – Year – ACOME – no. fibres X – product ref + metric	

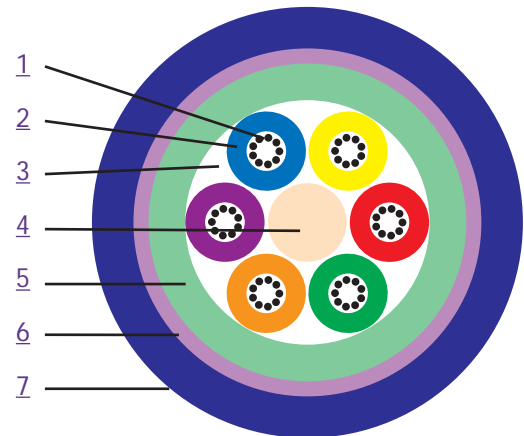
ACOPTIC®

ACOME Loose Tube range

Double-sheathed cable for pulling into ducts 1 to 216 optical fibres

Description

- 1 Optical fibre : optical fibre
- 2 Tube : polyester
- 3 Waterproofing : water swellable elements
- 4 Central strength member : non-metallic
- 5 Intermediate sheath : PE
- 6 Strength members : non-metallic fibres
- 7 Outer jacket : HDPE or LSOH



ACOME references

Reference	No. of fibres	Jacket	Distribution of fibres
1101 series	1 to 48	HDPE	6 tubes of 6 or 8 fibres
1102 series	1 to 96	HDPE	8 tubes of 6 or 8 fibres
1104 series	1 to 72	HDPE	12 tubes of 6 or 8 fibres
1105 series	1 to 96	HDPE	18 tubes of 6 or 8 fibres
1106 series	1 to 144	HDPE	6 tubes of 6, 8 or 12 fibres
1107 series	1 to 216	HDPE	8 tubes of 6, 8 or 12 fibres
1109 series	1 to 72	HDPE	12 tubes of 6, 8 or 12 fibres
1110 series	1 to 96	HDPE	18 tubes of 6, 8 or 12 fibres

General cable characteristics

	Characteristics	Test method
Temperature range transport and storage installation operation	-40°C to +70°C -5°C to +50°C -40°C to +70°C	IEC 60794-1-F1
Allowable tension Tmax fibre elongation ≤ 0.3%	3 500 to 5 400 N	IEC 60794-1-E1
Crush resistance plate/plate	300 N/cm	IEC 60794-1-E3
Min. bending radius static	200 to 290 mm	IEC 60794-1-E11 Test 2
Min. kink diameter	130 to 190 mm	IEC 60794-1-E10
Nominal outer jacket diameter	12.7 mm to 19.2 mm	
Packaging	2 100 m, 4 100 m and 6 100 m drums	
Nominal weight of cable	130 to 291 kg/km	
Jacket marking	Week – Year – ACOME - no. fibres X – product ref + metric	