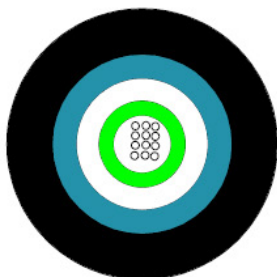# OPENETICS

RANGE

Fiber Optic

Metallic Armoured Fibre Optic Cable
(OM1 / OM2 / OS2)

Application and installation

This cable can be used for LAN and WAN backbones, telecom access lines, fibre to business and fibre to the building drop connections; as well as fibre to the home drop and access connections.

With its MDPE sheathing this cable is ideal for outdoor installation. The cable, having a corrugated steel tape armouring is rodent proof. The cable is well suited for installation in ducts and on trays.
The cable is excellent for direct burial with proper sand back filling.

Standards

- ISO 11801 2nd edition
- EN 50173-1:2002
- IEC 60794-1

Flame Resistance

- None

Data Sheet

Côde N°: 01-01-0-0-ES-V1.0

Date: 01/07/2025

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Metallic Armoured Fibre Optic Cable (OM1 / OM2 / OS2)

Fiber Optic

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Construction				
Loose tube	ø2.8 mm jelly filled loose tube with 2 – 16 fibres; ø3.5 mm loose tube with 24 fibres			
Fibre colour code	1	Red	13	Yellow w/mark per 70 mm
	2	Green	14	White w/mark per 70 mm
	3	Blue	15	Grey w/mark per 70 mm
	4	Yellow	16	Turquoise w/mark per 70 mm
	5	White	17	Orange w/mark per 70 mm
	6	Grey	18	Pink w/mark per 70 mm
	7	Brown	19	Yellow w/mark every 35 mm
	8	Violet	20	White w/mark every 35 mm
	9	Turquoise	21	Grey w/mark every 35 mm
	10	Black	22	Turquoise w/mark every 35 mm
	11	Orange	23	Orange w/mark every 35 mm
	12	Pink	24	Pink w/mark every 35 mm
Strength member	E-Glass yarns			
Armouring	0.15 mm corrugated steel tape			
Sheath	1.5 mm black MDPE sheath, IEC 60811, IEC 60708			

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(OM1 / OM2 / OS2)

Physical Properties

Property	IEC 60794-1-1 Test method	Value
■ Nominal outer diameter	-	2 - 16 fibres: 8.5 mm 18 - 24 fibres: 8.5 mm
■ Nominal weight	-	2 - 16 fibres: 75 kg/km 18 - 24 fibres: 80 kg/km
■ Tensile strength (dynamic)	E1	1000 N
■ Tensile strength (permanent)	E1	500 N
■ Compressive strength (crush)	E3	2000N
■ Impact	E4	10 Nm
■ Torsion	E7	5 cycles ± 1 turn
■ Kink	E10	The cables do not form a kink when a loop is drawn together to a diameter of 100 mm
■ Min. bending radius, unloaded	E11	R = 55 mm
■ Min. bending radius, loaded	-	R = 110 mm
■ Temperature range	F1	Storage and installation: -40 ºC to +70 ºC Operation: -40 ºC to +70 ºC. The max. attenuation variation in the operational temperature range is: For M6 and M5 fibres: 0.5 dB/km For SM fibres: 0.2 dB/km.

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Metallic Armoured Fibre Optic Cable
(OM1 / OM2 / OS2)

Fiber Optic

RANGE

Ordering Information

P/N	Description	Fibre Type	Sheat	Fiber Diameter	Nº Fibres
05021	Metallic armoured FO cable	OM1	MDPE	62,5/125 µm	4
05022	Metallic armoured FO cable	OM1	MDPE	62,5/125 µm	6
05025	Metallic armoured FO cable	OM1	MDPE	62,5/125 µm	12
05027	Metallic armoured FO cable	OM1	MDPE	62,5/125 µm	24

P/N	Description	Fibre Type	Sheat	Fiber Diameter	Nº Fibres
14912	Metallic armoured FO cable	OM2	MDPE	50/125 µm	6
14913	Metallic armoured FO cable	OM2	MDPE	50/125 µm	8
14914	Metallic armoured FO cable	OM2	MDPE	50/125 µm	12
14916	Metallic armoured FO cable	OM2	MDPE	50/125 µm	24

P/N	Description	Fibre Type	Sheat	Fiber Diameter	Nº Fibres
14951	Metallic armoured FO cable	OS2	MDPE	9/125 µm	6
14952	Metallic armoured FO cable	OS2	MDPE	9/125 µm	8
14953	Metallic armoured FO cable	OS2	MDPE	9/125 µm	12
14955	Metallic armoured FO cable	OS2	MDPE	9/125 µm	24

Data Sheet

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