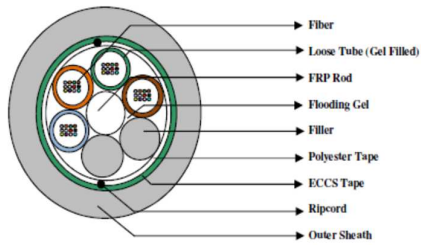


## Product information

48F Single Mode, G.657A1, Multi loose tube (4Tx12F),  
ECCS Armored, HDPE Outdoor Cable, Black

R196787

2000m



Similar product

The outdoor cable for cable trays and supply ducts. The design is gel-filled Multi loose tube of a diameter of  $2.2 \pm 0.1$  mm for 12 fibers each. 0.140 mm (min.) ECCS armoring provides the cable's rodent protection. Outer sheath is made up of HDPE 1.5 mm (Nominal) for harsh environments.

Sheath: HDPE, Black.

Fiber: Single mode (SM) E9/125.

### Technical Data

DESCRIPTION [UNIT]	VALUE/VALUE RANGE
Standard	IEC 60794-1-2 E11; IEC 60794-1-2 E3; IEC 60794-1-2 F1; IEC 61034; IEC 60754-2; ITU-T G.657A1; IEC 60793-2-50:2004, B 1.3; IEC 60794-1-2 E1
Cable type	Multi Loose Tube
Outer Sheath	HDPE - 1.5 mm (Nominal), Black
Outer jacket material	Cable, water tight Polyethylene, metal free
Armour	ECCS Tape, 0.140 mm (Min.)
Cable overall diameter	$11.5 \pm 0.5$ mm
Peripheral Strength Member	$1.0 \pm 0.05$ mm FRP Rods - 2 nos.
Fiber type	Single mode (SM)
Fiber class	G.657A1 (OS2)
Fiber Count	48
Conductor type	Loose tube, Gel filled
Fiber diameter	E9 / 125 $\mu$ m
Number of Fiber per tube	12
Number of Loose Tubes	4
Central Strength Member	$2.3 \pm 0.1$ mm FRP Rod
Number of Fillers	2, HDPE - Black
Core Wrapping	Polyester Tape
Number of Rip Cords	2, Polyester
Tensile Strength	Short Term: 2700 N; Long Term: 890 N
Crush Resistance	2000N/cm
Moisture Barrier	Flooding Gel
Torsion	$\pm 180^\circ$
Minimum Bend Radius	20 x D: Installation; 10 x D: Operation
Temperature Installation	- 20 °C to + 60 °C
Temperature Operation	- 20 °C to + 60 °C
Temperature Storage	- 20 °C to + 60 °C
Impact Strength	1.6 N.m, 2000 impacts
Product code description	Multi Loose Tube-4Tx12F-ECCS Armored- HDPE Cable-48F-G657A1

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### Mechanical Data

DESCRIPTION [UNIT]	VALUE/VALUE RANGE
Cable length	2000.0 m $\pm$ 10%
Color	Black
Cable Weight	125.0 $\pm$ 10.0 kg/km