



DATASHEET

Product: Multi Purpose Fibre Optic Cable (Gn QERE R0.9)

Date: 10.11.04

Material no:

Rev.: 01

G12-QERE \varnothing 2.3-R1.0: TBD

G24- QERE \varnothing 3.0-R1.0: TBD

G48 QERE \varnothing 3.7-R1.0: 10074158

Application

The MPC-1 cable is a multi purpose fibre optic cable, designed for installation in lakes, rivers, sea, tunnels or as direct burial cable on shore. The fibres are placed in an insulated, armoured stainless steel tube with an outer polyethylene sheath.

The MPC-1 cable can be supplied in long lengths on drums (>50 km). The optical fibres are well protected inside a steel tube, filled with water blocking compound and hydrogen scavenging material, securing long life and optimum optical characteristics

Cable Design (all values in mm)

	Thickness	Outer Diameter
Optical fibres 12, 24 or 48 off	-	0.25
Steel tube with tube filling	0.2	3.0 ¹⁾
Inner sheath, polyethylene (HDPE), black	-	5.3
Armouring, galvanized steel wires, 20 off	0.9	7.3
Outer sheath, polyethylene (HDPE), black	-	11

Physical Characteristics

Bending diameter (min)	mm	200
Safe Working Load	kN	5
Breaking Load	kN	20
Weight in air (approximately)	kg/km	185

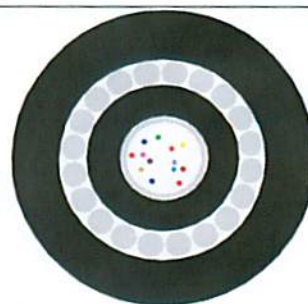
Optical Characteristics

Fibre types: G.651, G.652, G.554, G.655 or combinations

Typical ITU-T G.652 characteristics	1310 nm	1550 nm
Optical attenuation, max (dB/km):	0.36	0.20
	1288 – 1339 nm	1550 nm
Chromatic dispersion, max (ps/nm.km)	3.5	18

Fibre Marking

Fibre colour	0/0	1/50	1/25	2/50	2/25
Red	1	13	22	31	40
Green	2	14	23	32	41
Blue	3	15	24	33	42
Yellow	4	16	25	34	43
White	5	17	26	35	44
Grey	6	NA	NA	NA	NA
Brown	7	NA	NA	NA	NA
Violet	8	NA	NA	NA	NA
Aqua	9	18	27	36	45
Black	10	NA	NA	NA	NA
Orange	11	19	28	37	46
Pink	12	20	29	38	47
Natural	NA	21	30	39	48



Drawing No:
D-7605 Issue 1

¹⁾ Tube dimension will depend on fibre count: \varnothing 2.3 with 12 fibres, \varnothing 3.0 with 24 fibres, \varnothing 3.7 with 48 fibres,
All data subject to change without prior notice