

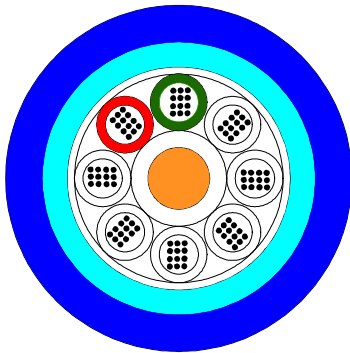


QXAI-I/O/RG-JM/W

6 – 264 Optical fibres; 6, 8 or 12 fibres per \varnothing 2.3 mm tube; rodent protection green FireBur[®] sheath, IEC 60332-1-2

EN 50173-1:2002

IEC 60794-2-21



Application

Universal indoor/outdoor cable for LAN, MAN and WAN backbones
Direct installation in the ground.

Standards

- EN 187 000
- IEC 60794-2
- IEC 60794-2-20
- IEC 60794-2-21
- ISO 11801 2nd edition
- EN 50 173-1

Construction

Central strength member	\varnothing 2.5 mm FRP rod
Loose tube	\varnothing 2.3 mm jelly filled loose tubes, with 2 – 12 fibres each, up to 22 tubes in two layers, for lay-up refer to B04
Water blocking	The core is waterblocked using swellable tape and tread
Wrapping	Polyester nonwoven
Reinforcement	Heavy layer of glass fibre yarns as reinforcement and rodent protection, effective in most cases.
Ripcord	Polyester ripcord for easy slitting of the sheath
Sheath	1.5 mm green FireBur [®] , UV stabilized, EN 50290-2-27

Fire rating

IEC 60332-1-2	Single vertical wire test,
IEC 60754-1	No halogens
IEC 60754-2	No acid matters
IEC 61034-2	No dense smoke

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Heat of combustion

Fibre count; 6 fibre/tube	Fibre count; 8 fibre/tube	Fibre count; 12 fibre/tube		
6-36	8-48	12-72	2200 MJ/km	0.61 KWh/m
42-48	56-64	84-96	2900 MJ/km	0.81 KWh/m
54-60	72-80	108-120	3700 MJ/km	1.03 KWh/m
66-72	88-96	132-144	4600 MJ/km	1.28 KWh/m
78-84	104-112	156-168	5600 MJ/km	1.56 KWh/m
90-108	120-144	180-216	4300 MJ/km	1.19 KWh/m
114-132	152-176	228-264	5200 MJ/km	1.44 KWh/m

Physical properties

IEC 60974-1-2

Tensile strength (dynamic)	E1	6000 N
Tensile strength (permanent)	E1	4000 N
Compressive strength (crush)	E3	3000N
Impact	E4	25 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 12 times the cable nominal diameter
Temperature range	F1	The cables can bear temperature cycling between -40 °C to +70 °C. The cables will operate without any attenuation variation (≤0.05 dB) in the temperature interval -30°C to +60°C. The cables will operate with a maximum attenuation variation of 0.1 dB/km in the temperature interval -40°C to +70°C.
Water penetration	F5	No water on free end

Mechanical properties

Fibre count; 6 fibre/tube	Fibre count; 8 fibre/tube	Fibre count; 12 fibre/tube	Nominal diameter	Nominal cable weight	Minimum bending radius
6-36	8-48	12-72	13 mm	145 kg/km	160 mm
42-48	56-64	84-96	14.5 mm	180 kg/km	175 mm
54-60	72-80	108-120	16 mm	230 kg/km	190 mm
66-72	88-96	132-144	17.5 mm	270 kg/km	210 mm
78-84	104-112	156-168	19 mm	315 kg/km	220 mm
90-108	120-144	180-216	18 mm	260 kg/km	215 mm
114-132	152-176	228-264	19.5 mm	305 kg/km	230 mm

Ordering information

9/125 fibre (SMF652.D), Blue*		50/125 fibre (MMF50HiCap), Orange*		62.5/125 fibre (MMF62HiCap), Grey*	
Part no.	Cable code	Part no.	Cable code	Part no.	Cable code
637100	G12-9/125 QXAI-I/O/RG-JM/W	637102	G12-50/125 QXAI-I/O/RG-JM/W	637104	G12-62.5/125 QXAI-I/O/RG-JM/W
637110	G24-9/125 QXAI-I/O/RG-JM/W	637112	G24-50/125 QXAI-I/O/RG-JM/W	637114	G24-62.5/125 QXAI-I/O/RG-JM/W
637120	G36-9/125 QXAI-I/O/RG-JM/W	637122	G36-50/125 QXAI-I/O/RG-JM/W	637124	G36-62.5/125 QXAI-I/O/RG-JM/W
637130	G48-9/125 QXAI-I/O/RG-JM/W	637132	G48-50/125 QXAI-I/O/RG-JM/W	637134	G48-62.5/125 QXAI-I/O/RG-JM/W
637150	G72-9/125 QXAI-I/O/RG-JM/W	637152	G72-50/125 QXAI-I/O/RG-JM/W	637154	G72-62.5/125 QXAI-I/O/RG-JM/W
637160	G96-9/125 QXAI-I/O/RG-JM/W	637162	G96-50/125 QXAI-I/O/RG-JM/W	637164	G96-62.5/125 QXAI-I/O/RG-JM/W
637170	G144-9/125 QXAI-I/O/RG-JM/W	637172	G144-50/125 QXAI-I/O/RG-JM/W	637174	G144-62.5/125 QXAI-I/O/RG-JM/W

*)-Standard colours of outer sheath