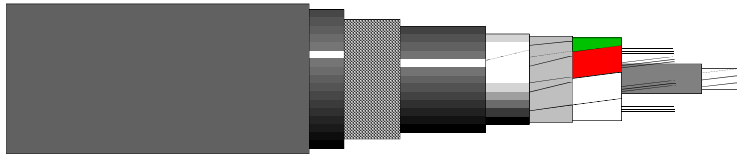


Fire resistant optical fibre cable, QFCI-I/O/RM/C-JM/-, MUD PROTECTED (F5)



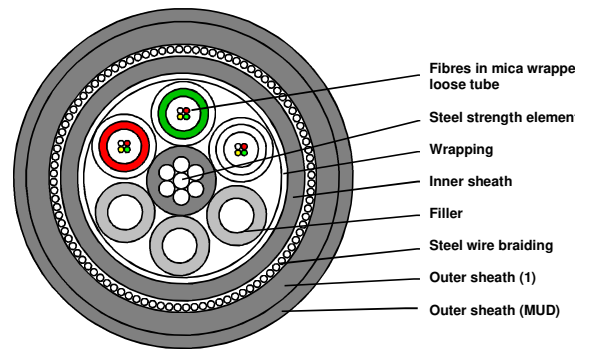
QFCI-I/O/RM/C-JM/-

Indoor and outdoor.
 Fire resistant
 Flame retardant halogen-free
 Loose tube

NEK 606 Code (F5)

Optical cable for indoor and outdoor use in vital communication and emergency systems that need to be operational during fire. The cable has a patented design that ensures operation for more than 3 hours in fires up to 1000°C. The cable is halogen free and flame retardant to protect against secondary damage to electronic equipment during and after fire. Outer sheath(1) is made from black UV-stabilized and weather resistant material and may be exposed for shorter periods to fluids such as diesel and mineral oils. The resistance to these fluids is according to IEC60811-2-1. The cable is reinforced with a steel wire braiding. The fibres are protected in jelly filled loose tubes stranded around a central strength member to ensure optimum performance and long life. Each fibre and loose tube is colour coded for easy identification during splicing and termination. The outer sheath is marked to show fibre type and cable type.

An additional outer sheath is added for improved oil- and MUD protection. The sheath colour is GREY.



Weight and dimensions

Number of fibres	Number of fibres in each tube	Number of tubes + fillers	Loose tube diameter (mm)	Outer diameter (mm)	Weight (kg/km)	Heat release (Estimated) (MJ/km)
8	4	2+4	2.2	15.5	325	2000
12	4	3+3	2.2	15.5	325	2000
24	4	6+0	2.2	15.5	325	2000
48	8	6+0	2.2	15.5	325	2000

Other fibre counts are available on request.

Cable properties

Tensile strength (IEC 60794-1-2E1)		Chemical resistance	
Max tensile load during installation	1500 N	Mineral oils IRM 902 (IEC60811-2-1)	- 7 days/100°C
Max tensile load during operation	500 N	Diesel - IRM 903 (IEC60811-2-1)	- 7 days/100°C
Crush (IEC 60794-1-2E3)		Fire and smoke classifications	
	3000 N/10cm	IEC 60331-25 (750°C, 90 minutes)	<1.0 dB excess loss
Impact (IEC 60794-1-2E4)		Upgraded IEC 60331-25 (1000°C, 3 hours)	<1.5 dB excess loss
	30J	BP GS 112-2 Clause7.1	
Torsion (IEC 60794-1-2E7)		IEC 61034	
	±1 turn/1m	IEC 60332-3-22 (Cat. A)	
Cable bending		IEC 60332-3-24 (Cat. C)	
Minimum bending diameter	250 mm	IEC 60754-1	
Cable bend (IEC 60794-1-2E11)	<0.1dB/ ±5 turn		
Temperature window			
Operation	-40°C to +70°C		
Installation	-10°C to +70°C		
Storage	-40°C to +70°C		

Ordering information

Part no	Number of fibres	Cable Type	Fiber type	Stock Item	Fiber data sheet
20109485	8	G8-9/125 QFCI-I/O/RM/C-JM/-	OS2 Single mode		C03e
20109488	12	G12-9/125 QFCI-I/O/RM/C-JM/-	OS2 Single mode		C03e
20109483	24	G24-9/125 QFCI-I/O/RM/C-JM/-	OS2 Single mode		C03e
20116217	48	G48-9/125 QFCI-I/O/RM/C-JM/-	OS2 Single mode		C03e
20109490	8	G8-50/125 QFCI-I/O/RM/C-JM/-	OM2 50/125 multi mode		C23
20112243	12	G12-50/125 QFCI-I/O/RM/C-JM/-	OM2 50/125 multi mode		C23
20118902	24	G24-50/125 QFCI-I/O/RM/C-JM/-	OM2 50/125 multi mode		C23
	48	G48-50/125 QFCI-I/O/RM/C-JM/-	OM2 50/125 multi mode		C23
	12	G12-50/125OM3 QFCI-I/O/RM/C-JM/-	OM3 MaxCap-OM3		C31
	24	G24-50/125OM3 QFCI-I/O/RM/C-JM/-	OM3 MaxCap-OM3		C31
	48	G48-50/125OM3 QFCI-I/O/RM/C-JM/-	OM3 MaxCap-OM3		C31
20110577	4	G4-62.5/125 QFCI-I/O/RM/C-JM/-	OM1 62.5/125 multi mode		C02
20110579	8	G8-62.5/125 QFCI-I/O/RM/C-JM/-	OM1 62.5/125 multi mode		C02
20109481	12	G12-62.5/125 QFCI-I/O/RM/C-JM/-	OM1 62.5/125 multi mode		C02
20109482	24	G24-62.5/125 QFCI-I/O/RM/C-JM/-	OM1 62.5/125 multi mode		C02
20116216	48	G48-62.5/125 QFCI-I/O/RM/C-JM/-	OM1 62.5/125 multi mode		C02

Colour codes

Fibre number	Colour	Tube number	Colour
1	White	1	Red
2	Red	2	Green
3	Yellow	3	White
4	Green	4	White
5	Blue	5	White
6	Grey	6	White
7	Brown		
8	Black		

Standard colour on outer sheet is Grey

We reserve the right to alter this specification without notice.
Other fibre types and qualities are available on request.



**THORNE &
DERRICK**
INTERNATIONAL

Thorne & Derrick
+44 (0) 191 410 4292
www.powerandcables.com