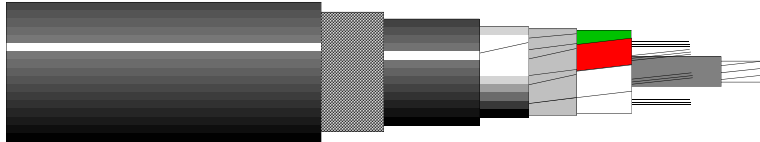


# Fire resistant QFCI-I/O/RM-JM/- F1

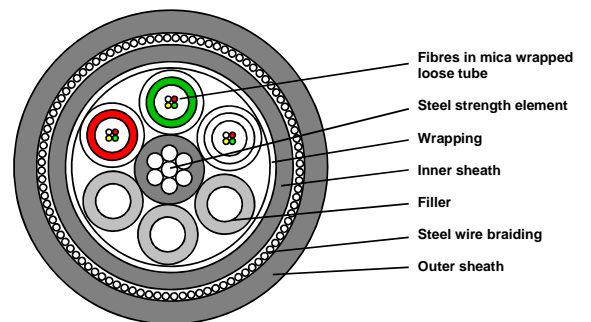


Indoor and outdoor.  
**Fire resistant**  
**Flame retardant halogen-free**  
**Loose tube**

## QFCI-I/O/RM-JM/-

NEK 606 Code F1

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 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.



### 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 (MJ/km)
4	2	2+4	2.2	13.5	260	1390
8	4	2+4	2.2	13.5	260	1381
12	4	3+3	2.2	13.5	260	1324
24	4	6+0	2.2	13.5	260	1138
48	8	6+0	2.2	13.5	260	1138

Other fibre counts are available on request.

### Cable properties

<b>Tensile strength</b> (IEC 60794-1-2E1) Max tensile load during installation 1500 N Max tensile load during operation 500 N	<b>Chemical resistance</b> Mineral oils IRM 902 (IEC60811-2-1) - 7 days/23°C - 4 hours/70°C Diesel - IRM 903 (IEC60811-2-1) - 7 days/23°C - 4 hours/70°C
<b>Crush</b> (IEC 60794-1-2E3) 3000 N/10cm <b>Impact</b> (IEC 60794-1-2E4) 30J <b>Torsion</b> (IEC 60794-1-2E7) ±1 turn/1m	<b>Fire and smoke classifications</b> IEC 60331-25 (750°C, 90 minutes) <1.0 dB excess loss Upgraded IEC 60331-25 (1000°C, 3 hours) <1.5 dB excess loss BP GS 112-2 Clause7.1
<b>Cable bending</b> Minimum bending diameter 250 mm Cable bend (IEC 60794-1-2E11) <0.1dB/ ±5 turn	IEC 61034 IEC 60332-3-22 (Cat. A) IEC 60332-3-24 (Cat. C)
<b>Temperature window</b> Operation -40°C to +70°C Installation -10°C to +70°C Storage -40°C to +70°C	IEC 60754-1 IEC 60754-2

## Fire resistant QFCI-I/O/RM-JM/- F1

### Ordering information

Part no	Number of fibres	Cabe Type	Fiber type	Fiber data sheet
694150	12	G12-9/125 QFCI-I/O/RM-JM/-	OS2 Single mode	C03e
694180	24	G24-9/125 QFCI-I/O/RM-JM/-	OS2 Single mode	C03e
694139	48	G48-9/125 QFCI-I/O/RM-JM/-	OS2 Single mode	C03e
694152	12	G12-50/125 QFCI-I/O/RM-JM/-	OM2 50/125 multi mode	C23
694182	24	G24-50/125 QFCI-I/O/RM-JM/-	OM2 50/125 multi mode	C23
694169	48	G48-50/125 QFCI-I/O/RM-JM/-	OM2 50/125 multi mode	C23
	12	G12-50/125OM3 QFCI-I/O/RM-JM/-	OM3 MaxCap-OM3	C31
	24	G24-50/125OM3 QFCI-I/O/RM-JM/-	OM3 MaxCap-OM3	C31
	48	G48-50/125OM3 QFCI-I/O/RM-JM/-	OM3 MaxCap-OM3	C31
694124	4	G4-62.5/125 QFCI-I/O/RM-JM/-	OM1 62.5/125 multi mode	C02
694144	8	G8-62.5/125 QFCI-I/O/RM-JM/-	OM1 62.5/125 multi mode	C02
694154	12	G12-62.5/125 QFCI-I/O/RM-JM/-	OM1 62.5/125 multi mode	C02
694184	24	G24-62.5/125 QFCI-I/O/RM-JM/-	OM1 62.5/125 multi mode	C02
694189	48	G48-62.5/125 QFCI-I/O/RM-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		

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