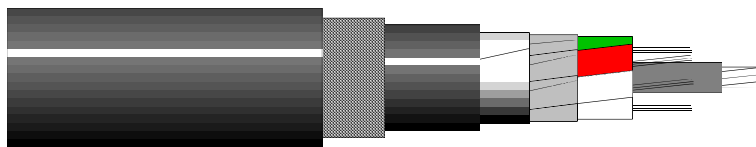


Fire resistant optical fibre cable, QFCI-I/O/RM-JM/-, F1

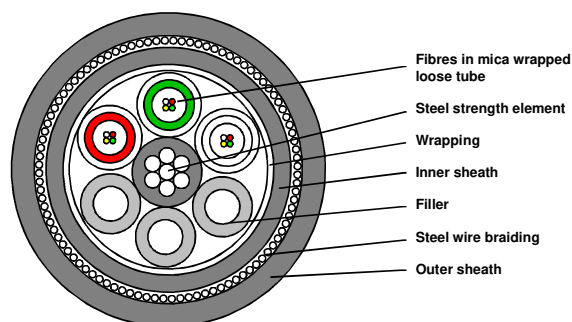
QFCI-I/O/RM-JM/-



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

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. The sheath colour is BLACK.



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

Tensile strength (IEC 60794-1-2E1) Max tensile load during installation 1500 N Max tensile load during operation 500 N		Chemical resistance 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	
Crush (IEC 60794-1-2E3) 3000 N/10cm		Fire and smoke classifications 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 IEC 61034 IEC 60332-3-22 (Cat. A) IEC 60332-3-24 (Cat. C) IEC 60754-1 IEC 60754-2	
Impact (IEC 60794-1-2E4) 30J			
Torsion (IEC 60794-1-2E7) ±1 turn/1m			
Cable bending Minimum bending diameter 250 mm 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			



THORNE &
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Ordering information

Part no	Number of fibres	Cable Type	Fiber type	Stock Item	Fiber data sheet
20110842	8	G8-9/125 QFCI-I/O/RM-JM/-	OS2 Single mode	-	C03e
20109401	12	G12-9/125 QFCI-I/O/RM-JM/-	OS2 Single mode	Yes	C03e
20109404	24	G24-9/125 QFCI-I/O/RM-JM/-	OS2 Single mode	Yes	C03e
20109399	48	G48-9/125 QFCI-I/O/RM-JM/-	OS2 Single mode	Yes	C03e
20109398	4	G4-50/125 QFCI-I/O/RM-JM/-	OM2 50/125 multi mode	-	C23
20109402	12	G12-50/125 QFCI-I/O/RM-JM/-	OM2 50/125 multi mode	-	C23
20110759	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
20109417	4	G4-50/125OM3 QFCI-I/O/RM-JM/-	OM3 MaxCap-OM3	-	C31
699875	12	G12-50/125OM3 QFCI-I/O/RM-JM/-	OM3 MaxCap-OM3	-	C31
699872	24	G24-50/125OM3 QFCI-I/O/RM-JM/-	OM3 MaxCap-OM3	-	C31
20110843	48	G48-50/125OM3 QFCI-I/O/RM-JM/-	OM3 MaxCap-OM3	-	C31
20110462	4	G4-62.5/125 QFCI-I/O/RM-JM/-	OM1 62.5/125 multi mode	Yes	C02
20110463	8	G8-62.5/125 QFCI-I/O/RM-JM/-	OM1 62.5/125 multi mode	Yes	C02
20109403	12	G12-62.5/125 QFCI-I/O/RM-JM/-	OM1 62.5/125 multi mode	Yes	C02
20109405	24	G24-62.5/125 QFCI-I/O/RM-JM/-	OM1 62.5/125 multi mode	Yes	C02
20109406	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.



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