

Armoured and flame retardant AICI-I/O/RM-W

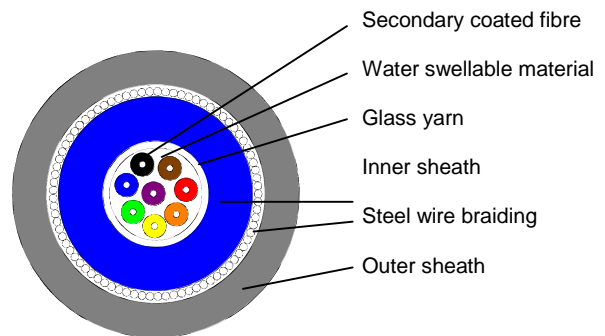
AICI-I/O/RM-W



Indoor and outdoor
Flame retardant and halogen free
Steel wire braiding
Tight buffer

NEK 606 Code F6

Optical cable for industrial environments. The cable is suitable for both indoor and outdoor installation. The outer sheath is made from black UV-stabilized and weather resistant material which is SHF1 classified, 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 between the two sheaths. Strength elements of glass yarn around the cable core allow easy installation of long lengths. The 0.9 mm tight buffer is easy to strip allowing fast and reliable splicing and connector mounting. Each fibre is colour coded for easy identification. The outer sheath is marked to show fibre type and cable type.



Weight and dimensions

Number of fibres	Secondary coating	Outer diameter	Weight	Tensile strength*
	[mm]	[mm]	[kg/km]	[Inst./oper.] [N]
4	0.9	8.2	90	700/250
8	0.9	9.4	125	800/350
12	0.9	10.3	145	1200/500
24	0.9	12.0	185	1700/750

Cable properties

*Tensile strength (IEC 60794-1-2E1)		Temperature window	
Max tensile load during installation	See above	Operation	-40°C to +70°C
Max tensile load during operation	See above	Installation	-10°C to +70°C
		Storage	-40°C to +70°C
Crush (IEC 60794-1-2E3)	2000 N/10cm	Water tightness* (IEC 60794-1-2F5B)	< 3 m/24 hours
Impact (IEC 60794-1-2E4)	1 impacts, 25J	Fire and smoke classifications	
Torsion (IEC 60794-1-2E7)	± 1 turn/1m	IEC 60332-1	
		IEC 60332-3-22 (Cat. A)	
Cable bending		IEC 60332-3-24 (Cat. C)	
Minimum bending diameter	15x outer diameter	IEC 61034	
Cable bend (IEC 60794-1-2E11)	<0.5 dB/ ± 5 turn	IEC 60754-1	
Flexibility (IEC 60794-1-2E8)	1000 cycles	IEC 60754-2	
		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

*) – Steel wire braiding is not watertight.

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Ordering information

Part no	Number of fibres	Cable Type	Fiber type	Stock Item	Fiber data sheet
20109407	4	G4-9/125 AICI-I/O RM-W	OS2 Single mode	-	C03e
20109409	8	G8-9/125 AICI-I/O RM-W	OS2 Single mode	-	C03e
20109412	12	G12-9/125 AICI-I/O RM-W	OS2 Single mode	-	C03e
20117329	24	G24-9/125 AICI-I/O RM-W	OS2 Single mode	-	C03e
20122674	4	G4-50/125 AICI-I/O RM-W	OM2 50/125 multi mode	-	C34
695442	8	G8-50/125 AICI-I/O RM-W	OM2 50/125 multi mode	-	C34
695452	12	G12-50/125 AICI-I/O RM-W	OM2 50/125 multi mode	-	C34
20110876	24	G24-50/125 AICI-I/O RM-W	OM2 50/125 multi mode	-	C34
1019310	4	G4-50/125OM3BB AICI-I/O RM-W	OM3 MaxCap-BB-OM3	-	C31
20109410	8	G8-50/125OM3BB AICI-I/O RM-W	OM3 MaxCap-BB-OM3	-	C31
695453	12	G12-50/125OM3BB AICI-I/O RM-W	OM3 MaxCap-BB-OM3	-	C31
20117332	24	G24-50/125OM3BB AICI-I/O RM-W	OM3 MaxCap-BB-OM3	-	C31
20109408	4	G4-62.5/125 AICI-I/O RM-W	OM1 62.5/125 multi mode	Yes	C02
20109411	8	G8-62.5/125 AICI-I/O RM-W	OM1 62.5/125 multi mode	Yes	C02
20109413	12	G12-62.5/125 AICI-I/O RM-W	OM1 62.5/125 multi mode	-	C02
20109414	24	G24-62.5/125 AICI-I/O RM-W	OM1 62.5/125 multi mode	-	C02

OM4 and other fibre types on request.

Colour code

Fibre no.	Colour	Fibre no.	Colour	Fibre no.	Colour
1	White	9	Violet	17	Blue + marker
2	Red	10	Turquoise	18	Grey + marker
3	Yellow	11	Orange	19	Brown + marker
4	Green	12	Pink	20	Light Blue + marker
5	Blue	13	White + marker	21	Violet + marker
6	Grey	14	Red + marker	22	Turquoise + marker
7	Brown	15	Yellow + marker	23	Orange + marker
8	Black	16	Green + marker	24	Pink + marker

Standard colour of outer sheath is black.

We reserve the right to alter this specification without notice.