Flame retardant optical fibre cable, AICI-I/O/RM/C-W, MUD PROTECTED

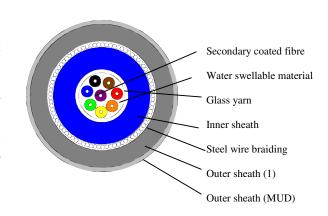


Armoured industrial cable AICI-I/O/RM/C-W

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

Optical cable for industrial environments. The cable is suitable for both indoor and outdoor installation. Continiuous submergence in water is not recommended. 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 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.

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



Weight and dimensions

Number of fibres	Secondary coating	ating Outer diameter Weight		Tensile strength* [Inst./oper.]	
	[mm]	[mm]	[kg/km]	[N]	
4	0.9	10.2	140	700/250	
8	0.9	11.4	165	800/350	
12	0.9	12.4	195	1200/500	
24	0.9	14.0	240	1700/750	

Cable properties

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)	\pm 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/ \pm 5 turn	IEC 60754-1	
Flexibility (IEC 60794-1-2E8)	1000 cycles		
		Chemical reistance	
		Mineral oils IRM 902 (IEC60811-2-1)	- 7 days /100°C
		Diesel - IRM 903 (IEC60811-2-1)	- 7 days/100°C

^{*) -} Steel wire braiding is not watertight.



Ordering information

Part no	Number of fibres	/ [Fiber type	Stock Item	Fiber data sheet
20116218	4	G4-9/125 AICI-I/O/RM/C-W	OS2 Single mode(G652D)	-	C03e
*	8	G8-9/125 AICI-I/O/RM/C-W	OS2 Single mode(G652D)	-	C03e
*	12	G12-9/125 AICI-I/O/RM/C-W	OS2 Single mode(G652D)	-	C03e
*	24	G24-9/125 AICI-I/O/RM/C-W	OS2 Single mode(G652D)	-	C03e
*	4	G4-50/125 AICI-I/O/RM/C-W	OM2 50/125 multi mode	-	C23
*	8	G8-50/125 AICI-I/O/RM/C-W	OM2 50/125 multi mode	-	C23
886926	12	G12-50/125 AICI-I/O/RM/C-W	OM2 50/125 multi mode	-	C23
*	24	G24-50/125 AICI-I/O/RM/C-W	OM2 50/125 multi mode	-	C23
*	4	G4-50/125OM3 AICI-I/O/RM/C-W	OM3 MaxCap-OM3	-	C31
*	8	G8-50/125OM3 AICI-I/O/RM/C-W	OM3 MaxCap-OM3	-	C31
*	12	G12-50/125OM3 AICI-I/O/RM/C-W	OM3 MaxCap-OM3	-	C31
*	24	G24-50/125OM3 AICI-I/O/RM/C-W	OM3 MaxCap-OM3	-	C31
886701	4	G4-62.5/125 AICI-I/O/RM/C-W	OM1 62.5/125 multi mode	-	C02
886774	8	G8-62.5/125 AICI-I/O/RM/C-W	OM1 62.5/125 multi mode	-	C02
*	12	G12-62.5/125 AICI-I/O/RM/C-W	OM1 62.5/125 multi mode	-	C02
*	24	G24-62.5/125 AICI-I/O/RM/C-W	OM1 62.5/125 multi mode	-	C02

Other fibre types/qualities on request(for example OM4)

Colour code

Fibre	Colour	Fibre	Colour	Fibre	Colour
no.		no.		no.	
1	White	9	Violet	17	Blue + marker
2	Red	10	Turquise	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	Turquise + marker
7	Brown	15	Yellow + marker	23	Orange + marker
8	Black	16	Green + marker	24	Pink + marker

The outer sheath is as standard dark grey.



^{*)} Part numbers will be given on request. On inquiries or orders, please refer to datasheet number D92aici-mud_e22.doc