



Spec No

KAI-S- 05



Date

07.01.2017



SPECIFICATIONS



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Welding hose pipe and Cables ARCONE



IS Certified Range (IS 9857 :1990)

H.O.F.R (Heat Oil and flame retardant) welding cable copper /Aluminium

T.R.S (Tough Rubber Sheathed) General Service welding cable copper and /Aluminium

Copper Conductor

Conductor Area (mm ²)	No.& Dia (of wires (mm)	Current Rating Maximum Duty Cycle of 60% (Amps)		Nominal Thickness of covering MM	Max DC Resistance of Conductor at 20 ° C (Ohms/Km)	Voltage Drop (Volt/10m)	
		HOFR	TRS			HOFR at 90 ° C	TRS at 60 ° C
16	510/0.2	174	121	2.00	1.210	1.555	1.409
25	800/0.2	228	161	2.00	0.780	0.997	0.903
35	1114/0.2	285	201	2.00	0.554	0.708	0.641
50	708/0.3	360	254	2.20	0.386	0.492	0.446
70	990/0.3	454	320	2.40	0.272	0.347	0.314
95	1351/0.3	547	386	2.60	0.206	0.263	0.239



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Aluminium Conductor

Conductor Area (mm ²)	No.& Dia (of wires (mm))	Current Rating Maximum Duty Cycle of 60% (Amps)		Nominal Thickness of covering MM	Max DC Resistance of Conductor at 20 ° C (Ohms/Km)	Voltage Drop (Volt/10m)	
		HOFR	TRS			HOFR at 90 ° C	TRS at 60 ° C
25	354/0.3	186	129	2.00	1.23	1.574	1.427
35	495/0.3	227	159	2.00	0.901	1.153	1.045
50	708/0.3	287	200	2.20	0.634	0.811	0.735
70	990/0.3	361	253	2.40	0.445	0.570	0.516
95	1351/ 0.3	438	306	2.60	0.334	0.428	0.387
120	1702/0.3	522	365	2.80	0.0256	0.328	0.297

Rubber Hose Cable

Rubber hose for welding confirming IS 447 -1988

Nominal BORE Size MM	Tolerance on Nominal Bore Size mm	Tensile Strength		Elongation		Bursting Pressure N/mm ² Min	Working Pressure N/mm ² Min
		LINING N/mm ² Min	Cover N/mm ² Min	LINING Min %	Cover Min %		
5.00	± 0.75	5.0	7.0	250	300	5.00	1.25
6.30	± 0.75	5.0	7.0	250	300	5.00	1.25
8.00	± 0.75	5.0	7.0	250	300	5.00	1.25
10.00	± 0.75	5.0	7.0	250	300	5.00	1.25

1N/mm² =10.2 KGf/CM²

1kg/cm² = 14.4 PSI e.g. 5 N/ mm² 735 PSI