



TD B105 – Mineral Insulated Cable Data

August 2010

	Cable ref	Conductors		Cables exposed to touch (clipped direct)			Sheath effective c/s area (mm ²)	Earth fault loop impedance (R ₁ +R ₂) (ohm/km)	Maximum conductor resistance (ohm/km at 20°C)
		Number	Size (mm ²)	Current Rating		Volt drop mV/Amp/m			
				Bare (A)	LSF covered (A)				
LIGHT DUTY CABLE (500V)	2L1.0	2	1	16.5	18.5	42.0	5.4	30.7	18.1
	2L1.5	2	1.5	21.0	23.0	28.0	6.3	21.2	12.1
	2L2.5	2	2.5	28.0	31.0	17.0	8.2	13.3	7.41
	2L4.0	2	4.0	37.0	40.0	10.0	10.7	8.64	4.61
	3L1.0	3	1.0	13.5	15.0	36.0	6.7	30	18.1
	3L1.5	3	1.5	17.0	19.0	24.0	7.8	20.6	12.1
	3L2.5	3	2.5	23.5	26.0	14.0	9.5	12.9	7.41
	4L10	4	1.0	13.5	15.0	36.0	7.7	29.6	18.1
	4L1.5	4	1.5	17.0	19.0	24.0	9.1	20.2	12.1
	4L2.5	4	2.5	23.5	26.0	14.0	11.3	12.5	7.41
HEAVY DUTY CABLE (750V)	7L1.5	7	1.5	12.0	13.0	28.0	11.8	19.7	12.1
	7L2.5	7	2.5	16.0	17.5	17.0	15.4	12.1	7.41
	1H6.0	1	6.0	47.0	52.0	6.0	8.0	5.31	3.08
	1H10.0	1	10.0	63.0	70.0	3.6	9.0	3.38	1.83
	1H16.0	1	16.0	83.0	92.0	2.3	12.0	2.25	1.15
	1H25.0	1	25.0	108.0	120.0	1.45	15.0	1.52	0.727
	1H35.0	1	35.0	132.0	147.0	1.05	18.0	1.15	0.524
	1H50.0	1	50.0	163.0	181.0	0.80	22.0	0.85	0.387
	1H70.0	1	70.0	199.0	221.0	0.56	27.0	0.64	0.268
	1H95.0	1	95.0	238.0	264.0	0.43	32.0	0.51	0.193
	1H120.0	1	120.0	273.0	303.0	0.36	37.0	0.41	0.153
	1H150.0	1	150.0	311.0	346.0	0.30	44.0	0.34	0.124
	1H185.0	1	185.0	353.0	392.0	0.26	54.0	0.27	0.101
	1H240.0	1	240.0	411.0	457.0	0.22	70.0	0.21	0.0775
	1H300.0	1	300.0	595.0	661.0	0.16	87.0	0.18	0.0620
	2H1.5	2	1.5	22.5	25.0	28.0	11.0	19.8	12.1
	2H2.5	2	2.5	31.0	34.0	17.0	13.0	12.4	7.41
	2H4.0	2	4.0	41.0	45.0	10.0	16.0	8.04	4.61
	2H6.0	2	6.0	51.0	57.0	7.0	18.0	5.59	3.08
	2H10.0	2	10.0	69.0	77.0	4.2	24.0	3.56	1.83
	2H16.0	2	16.0	92.0	102.0	2.6	30.0	2.36	1.15
	2H25.0	2	25.0	120.0	133.0	1.65	38.0	1.62	0.727
	3H1.5	3	1.5	19.0	21.0	24.0	12.0	19.6	12.1
	3H2.5	3	2.5	25.0	28.0	14.0	14.0	12.2	7.41
	3H4.0	3	4.0	33.0	37.0	9.1	17.0	7.92	4.61
	3H6.0	3	6.0	43.0	48.0	6.0	20.0	5.49	3.08
	3H10.0	3	10.0	59.0	65.0	3.6	27.0	3.46	1.83
	3H16.0	3	16.0	77.0	86.0	2.3	34.0	2.29	1.15
	3H25.0	3	25.0	101.0	112.0	1.45	42.0	1.57	0.727
	4H1.5	4	1.5	19.0	21.0	24.0	14.0	19.4	12.1
4H2.5	4	2.5	25.0	28.0	14.0	16.0	12.0	7.41	
4H4.0	4	4.0	33.0	37.0	9.1	20.0	7.74	4.61	
4H6.0	4	6.0	42.0	47.0	6.00	24.0	5.35	3.08	
4H10.0	4	10.0	58.0	64.0	3.60	30.0	3.36	1.83	
4H16.0	4	16.0	77.0	85.0	2.30	39.0	2.20	1.15	
4H25.0	4	25.0	99.0	110.0	1.45	49.0	1.50	0.727	
7H1.5	7	1.5	13.0	14.5	28.0	18.0	19.0	12.1	
7H2.5	7	2.5	17.5	19.5	17.0	22.0	11.7	7.41	
12H2.5	12	2.5	14.5	16.0	17.0	34.0	11.4	7.41	
19H1.5	19	1.5	9.0	10.0	28.0	37.0	18.5	12.1	

Notes: Current ratings and volt drops are based on Tables 4G1A and 4G1B of the 17th edition of the IEE Wiring Regulations (BS 7671:2008), using Reference Method C. The figures for 2, 7, 12, & 19 core cables are for single phase operation. All other figures are for 3 phase operation

	Cable reference	Conductors		Cable diameter		Approx wt.		Glands & seals		Copper fixings			
		No.	Size (mm)	Bare (mm)	LSF cover (mm)	Bare (kg/km)	LSF cover (kg/km)	(Gland ref RGM)		One hole clips		2 way saddles	
								Plain seal RPS (mm)	E/tail seal RPSL (mm)	Bare Ref RC	LSF coated Ref RCHL	Bare ref RS	LSF coated Ref RSFL
LIGHT DUTY CABLE (500V)	2L1.0	2	1.0	5.1	6.4	105	126	20	20	20	26	202	272
	2L1.5	2	1.5	5.7	7.0	131	154	20	20	22	28	222	302
	2L2.5	2	2.5	6.6	7.9	180	206	20	20	26	32	272	342
	2L4.0	2	4.0	7.7	9.2	262	322	20	20	30	37	302	382
	3L1.0	3	1.0	5.8	7.1	136	159	20	20	22	28	242	302
	3L1.5	3	1.5	6.4	7.7	168	194	20	20	24	30	272	342
	3L2.5	3	2.5	7.3	8.8	222	272	20	20	28	34	302	342
	4L1.0	4	1.0	6.3	7.6	162	187	20	20	24	30	272	342
	4L1.5	4	1.5	7.0	8.3	203	231	20	20	28	34	302	342
	4L2.5	4	2.5	8.1	9.6	286	336	20	20	32	37	342	422
7L1.5	7	1.5	8.4	9.9	310	351	25	25	32	40	342	422	
7L2.5	7	2.5	9.7	11.2	433	475	25	25	37	43	382	462	
HEAVY DUTY CABLE (750V)	1H6.0	1	6.0	6.4	7.7	173	213	20	20	24	34	272	342
	1H10.0	1	10.0	7.3	8.8	233	273	20	25	28	34	302	342
	1H16.0	1	16.0	8.3	9.8	321	361	20	25	32	37	342	422
	1H25.0	1	25.0	9.6	11.1	456	506	20	32	37	43	382	462
	1H35.0	1	35.0	10.7	12.2	600	650	20	32	40	47	422	502
	1H50.0	1	50.0	12.1	13.6	782	842	25	40	47	54	502	542
	1H70.0	1	70.0	13.7	15.2	1087	1147	25	-	54	59	542	632
	1H95.0	1	95.0	15.4	17.4	1450	1520	25	-	59	67	632	702
	1H120.0	1	120.0	16.8	18.8	1790	1870	32	-	63	75	702	752
	1H150.0	1	150.0	18.4	20.4	2130	2230	32	-	71	79	752	812
	1H185.0	1	185.0	20.4	22.9	2425	2575	32	-	79	88	812	932
	1H240.0	1	240.0	23.3	25.8	3146	3312	40	-	88	101	932	1042
	1H300.0	1	300.0	26.0	28.5	3840	3970	50	-	-	-	-	-
	2H1.5	2	1.5	7.9	9.4	224	259	20	20	30	37	342	382
	2H2.5	2	2.5	8.7	10.2	275	314	20	20	34	40	342	422
	2H4.0	2	4.0	9.8	11.3	355	398	20	25	37	43	422	462
	2H6.0	2	6.0	10.9	12.4	433	483	20	25	43	47	462	502
	2H10.0	2	10.0	12.7	14.2	637	697	25	32	47	54	502	592
	2H16.0	2	16.0	14.7	16.2	888	968	25	40	54	63	592	702
	2H25.0	2	25.0	17.1	19.1	1175	1275	32	40	67	75	702	752
	3H1.5	3	1.5	8.3	9.8	253	290	20	20	32	37	342	422
	3H2.5	3	2.5	9.3	10.8	324	365	20	25	37	43	382	462
	3H4.0	3	4.0	10.4	11.9	416	461	20	25	40	47	422	502
	3H6.0	3	6.0	11.5	13.0	530	590	25	25	43	51	462	542
	3H10.0	3	10.0	13.6	15.1	783	853	25	32	54	59	542	632
	3H16.0	3	16.0	15.6	17.1	1000	1080	25	40	59	71	632	752
	3H25.0	3	25.0	18.2	20.2	1442	1548	40	40	71	79	752	812
	4H1.5	4	1.5	9.1	10.6	303	344	20	20	34	43	382	462
	4H2.5	4	2.5	10.1	11.6	385	430	20	25	40	47	422	462
	4H4.0	4	4.0	11.4	12.9	517	577	25	25	43	51	462	542
	4H6.0	4	6.0	12.7	14.2	658	718	25	32	47	54	502	592
	4H10.0	4	10.0	14.8	16.3	980	1050	25	32	54	63	592	702
	4H16.0	4	16.0	17.3	19.3	1300	1390	32	40	67	75	702	752
4H25.0	4	25.0	20.1	22.3	1800	1943	40	40	79	88	812	932	
7H1.5	7	1.5	10.8	12.3	431	478	25	25	43	47	462	502	
7H2.5	7	2.5	12.1	13.6	561	614	25	25	47	54	502	542	
12H2.5	12	2.5	15.6	17.9	875	970	32	-	59	71	632	752	
19H1.5	19	1.5	16.6	18.9	989	1086	40	-	63	71	702	752	