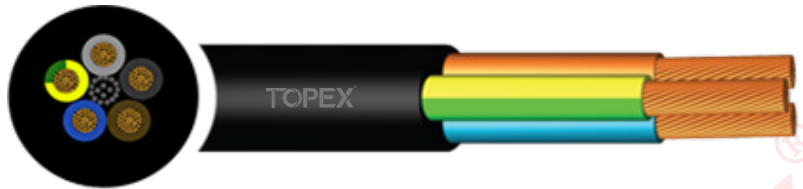


SINGLE & MULTI CORE RUBBER CABLE (H05RN-F & H07RN-F) SPECIFICATION: BS EN 50525-2-21



Construction

1	Conductor	Plain annealed flexible copper class 5 as per IEC 60228.
2	Insulation	Rubber Type EI4 as per BS EN 50363-1.
3	Color code	1C: Black 2C: Blue & Brown 3C: Green/Yellow, Blue & Brown 4C: Green/Yellow, Brown, Black & Grey 5C: Green/Yellow, Blue, Brown, Black & Grey 6C & Above: Black core with White numbers & One core with Green/Yellow.
4	Assembly *	Cores twisted together to make a round assembly with fillers wherever necessary.
5	Outer sheath	Rubber Type EM2 as per BS EN 50363-2-1. The color of the sheath shall be Black.
6	Printing text (Example)	0.5 SQ.MM: TOPEX CABLE 2X0.5 MM ² 450/750V GEN TO BS EN 50525-2-21 MADE IN INDIA 0.75 SQ.MM: TOPEX CABLE H05RN-F 2X0.75 MM ² 450/750V BS EN 50525-2-21 MADE IN INDIA 1.0 SQ.MM & ABOVE: TOPEX CABLE H07RN-F 5X10 MM ² 450/750V BS EN 50525-2-21 MADE IN INDIA

Technical data

1	Operating Temperature	-30°C to 60°C
2	Voltage Rating	450/750 V & 0.6/1KV rated for fixed and protected installation

Dimensional data

SL. NO.	NO. OF CORES	SIZE (mm ²)	INSULATION THICKNESS (mm)	OUTER SHEATH THICKNESS (mm)	APPROX. OVERALL DIA. (mm)	APPROX. CABLE WEIGHT (kg/km)	VOLTAGE DROP (V/A/km)
1	1C	10	1.20	1.90	9.93	149	4.24
2	1C	16	1.20	1.90	11.16	200	2.69
3	1C	25	1.40	2.00	13.36	295	1.73
4	1C	35	1.40	1.87	14.29	371	1.23

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5	1C	50	1.60	2.04	16.56	516	0.87
6	1C	70	1.60	2.21	18.57	684	0.62
7	1C	95	1.80	2.38	21.06	912	0.47
8	1C	120	1.80	2.55	22.97	1120	0.38
9	1C	150	2.00	2.72	25.41	1390	0.31
10	1C	185	2.20	2.89	27.89	1697	0.26
11	1C	240	2.04	2.98	30.19	2107	0.22
12	1C	300	2.60	3.60	33.79	2480	0.19
13	1C	400	2.60	3.00	37.87	3551	0.16
14	1C	630	2.80	3.00	45.08	5391	0.13
15	2C	0.5	0.51	0.68	5.22	32	99.84
16	2C	0.75	0.60	0.80	6.12	43	66.56
17	2C	1.0	0.68	1.11	7.37	61	49.92
18	2C	1.5	0.84	1.50	9.16	91	34.05
19	2C	2.5	0.90	1.53	10.26	121	20.43
20	2C	4.0	1.00	1.80	11.94	167	12.67
21	2C	6.0	0.85	1.70	12.12	191	8.45
22	3C	0.75	0.68	0.77	6.76	56	57.64
23	3C	1.0	0.68	1.19	7.95	76	43.23
24	3C	1.5	0.84	1.60	9.85	112	29.49
25	3C	2.5	0.80	1.80	10.94	149	17.69
26	3C	4.0	1.20	1.50	12.87	212	10.98
27	3C	6.0	1.04	2.42	15.05	294	7.32
28	3C	10.0	1.50	4.03	21.60	552	4.24
29	3C	16	1.02	2.98	19.80	552	2.69
30	3C	25	1.19	3.23	23.50	774	1.73
31	3C	35	1.19	3.49	27.86	1186	1.23
32	3C	50	1.54	3.83	31.20	1441	0.87
33	3C	70	1.36	4.08	36.46	2188	0.62
34	3C	95	1.53	4.51	38.73	2423	0.47
35	4C	1.5	0.95	1.53	11.05	145	29.49
36	4C	2.5	0.90	1.90	12.51	198	17.69
37	4C	4.0	1.22	2.04	15.26	293	10.98
38	4C	6.0	1.26	2.07	16.68	376	7.32
39	4C	10.0	1.60	3.40	22.46	639	4.24
40	4C	16	1.60	2.70	23.72	782	2.69
41	4C	25	1.19	3.49	26.06	985	1.73
42	4C	35	1.19	3.74	30.88	1513	1.23

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43	4C	50	1.25	4.03	33.05	1739	0.87
44	4C	70	1.40	5.00	41.90	2906	0.62
45	4C	95	1.53	5.02	43.33	3128	0.47
46	4C	120	1.53	5.10	48.48	4163	0.38
47	4C	150	1.70	5.53	53.74	5152	0.31
48	4C	185	1.87	5.95	58.85	6205	0.26
49	4C	240	2.04	6.55	66.50	8058	0.22
50	4C	300	2.21	7.14	73.62	9973	0.19
51	5C	1.5	0.80	1.71	11.52	162	29.49
52	5C	2.5	0.77	1.70	12.39	210	17.69
53	5C	4	1.39	1.69	16.73	360	10.98
54	5C	6	1.42	1.98	18.81	478	7.32
55	5C	10	1.38	3.60	23.48	727	4.24
56	5C	16	1.69	3.00	26.95	1000	2.69
57	5C	25	1.40	4.18	30.80	1321	1.73
58	5C	35	1.33	3.91	34.69	1906	1.23
59	5C	50	1.48	4.81	38.75	2297	0.87
60	5C	70	1.20	4.28	43.06	3335	0.62
61	5C	95	1.67	5.83	49.54	4008	0.47
62	7C	1.5	0.74	2.41	13.45	222	29.49
63	7C	2.5	0.83	2.59	15.58	318	17.69
64	12C	1.5	0.74	2.68	17.35	373	29.49
65	12C	2.5	0.83	2.87	20.15	537	17.69

Notes:

The tolerance on the cable overall diameter shall be +/- 2.0mm up to 20mm, +/- 3.0mm for 20mm to 30mm and above 30mm is +/-4.0mm.