

BV

RI Shipboard Power & Control

0.6/1kV 110°C O² >32. HCL <0.5%

Typical Applications

Flexible Power and Control cables suitable for all shipboard and marine applications.



Core colours

CENELEC HD 308S2 and IEC 60445

1C: BK
2C: BR BL
3C: BR BK GY
4C: BR BK GY BL
5C: BR BK GY BL BK
>5C: Black numbers on white insulation

AS/NZS 5000.1

1C: WH
2C: RE BK
2C+E: RE BK EA
3C+E: RE WH BL EA
4C+E: RE WH BL BK EA
>5C: Black numbers on white insulation+E

Other core colours available on request.

Construction

Conductors Finely stranded annealed copper to IEC 60228 & AS/NZS 1125 as standard. Available in plain and tinned.

Core Insulation 'Easy Strip' LSZH HEPR to IEC 60092-360

Jacket Flame Retardant 'Easy Strip' Low Friction LSZH. Splash resistant to oil, skydrol, petrol, acid, sea water. Resists ozone and UV.

Jacket Options

A Type SHF 1 to IEC 60092-360 Thermoplastic

C Type SHF 2 to IEC 60092-360 Thermoset, Oil Resistant

M Type SHF MUD to NEK TS 606 Thermoset, Oil & Mud Resistant

Operating Temp

-40°C to +110°C

Voltage Rating

600/1000 Volts

Jacket Colour

Black. Other colours available on request

Standards

IEC 60228
IEC 60092-350
IEC 60092-353
IEC 60332-1
IEC 60332-3-22 Cat A
IEC 60754-1&2
IEC 61034-1&2
IEEE 45
IEEE 1580
IEEE 1202
AS/NZS 1125
AS/NZS 1660.5.1
AS/NZS 1660.5.2
AS/NZS 1660.5.3
AS/NZS 1660.5.6

Approvals

ABS, BV, DNV-GL,
USCG, TC Transport
Canada Marine Safety
"Cable constructions,
Jackets, and Inner
components tested to
UL 1309 - CSA C22.2
No. 245 for Cold Bend
(-40°C) and Cold Impact
(-35°C)"

Size mm ²	Min. Bend Radius mm	Nom. Cond. OD mm	Nom. Ins. OD mm	Nom. Cable OD mm	Current Rating amp	Approx. Wt. kg/km
1c6	19.9	3.0	4.4	6.6	52	79
1c10	22.8	4.0	5.4	7.6	72	120
1c16	26.5	5.0	6.4	8.8	96	178
1c25	31.5	6.2	8.1	10.5	127	267
1c35	35.7	7.4	9.2	11.9	157	362
1c50	40.6	8.8	10.8	13.5	196	499
1c70	47.4	10.6	12.8	15.8	242	719
1c95	53.3	12.3	14.5	17.8	293	894
1c120	61.2	14.5	17.0	20.4	339	1216
1c150	68.6	16.3	19.2	22.9	389	1541
1c185	75.7	18.0	21.3	25.2	444	1869
1c240	83.9	20.3	23.8	28.0	522	2389
1c300	91.3	22.5	26.2	30.4	601	2995
1c400	104.5	26.0	30.1	34.8	670	3858
1c630	129.6	32.8	37.7	43.2	780	6098
2c1.5	24.0	1.5		8.1	20	82
2c2.5	28.0	1.9		9.2	26	114
2c4	31.0	2.5		10.2	34	153
2c6	35.0	3.0		11.5	44	208
2c10	41.0	4.0		13.6	61	313

Size <i>mm²</i>	Min. Bend Radius <i>mm</i>	Nom. Cond. OD <i>mm</i>	Nom. Ins. OD <i>mm</i>	Nom. Cable OD <i>mm</i>	Current Rating <i>amp</i>	Approx. Wt. <i>kg/km</i>
2c16	47.0	5.0		15.7	82	454
2c25	58.0	6.2		19.2	108	693
2c35	65.0	7.4		21.6	133	927
3c1.5	26.0	1.5		8.7	16	100
3c2.5	29.0	1.9		9.7	21	137
3c4	32.0	2.5		10.8	28	187
3c6	37.0	3.0		12.2	36	257
3c10	44.0	4.0		14.6	50	402
3c16	50.0	5.0		16.6	67	582
3c25	62.0	6.2		20.6	89	904
3c35	70.0	7.4		23.3	110	1218
3c50	80.0	8.8		26.8	137	1693
3c70	95.0	10.6		31.6	169	2442
3c95	106.0	12.3		35.5	205	3042
3c120	119.0	13.9		39.8	237	3871
3c150	130.0	15.1		43.4	272	4765
3c185	146.0	16.9		48.6	311	5647
3c240	161.0	18.9		53.8	365	7344
4c1.5	28.0	1.5		9.5	16	119
4c2.5	32.0	1.9		10.5	21	165
4c4	36.0	2.5		12.0	28	234
4c6	40.0	3.0		13.4	36	317
4c10	48.0	4.0		15.9	50	501
4c16	56.0	5.0		18.6	67	740
4c25	69.0	6.2		22.8	89	1145
4c35	77.0	7.4		25.8	110	1548
4c50	89.0	8.8		29.8	137	2157
4c70	105.0	10.6		35.1	169	3116
4c95	119.0	12.3		39.6	205	3896
4c120	132.0	13.9		44.2	237	4938
4c150	145.0	15.1		48.3	272	6109
4c185	162.0	16.9		54.2	311	7217
5c1.5	31.0	1.5		10.4	16	153
5c2.5	35.0	1.9		11.8	21	216
5c4	39.0	2.5		13.2	28	296
5c6	45.0	3.0		14.9	36	407
5c10	53.0	4.0		17.7	50	636
5c16	62.0	5.0		20.7	67	934
5c25	77.0	6.2		25.5	89	1438
5c35	86.0	7.4		28.8	110	1940
5c50	101.0	8.8		33.6	137	2710
5c70	118.0	10.6		39.5	169	3903
5c95	133.0	12.3		44.3	205	4848
5c120	149.0	13.9		49.6	237	6160
5c150	163.0	15.1		54.3	272	7611
5c185	182.0	16.9		60.7	311	8975
7c1.5	34.0	1.5		11.4	12	168
7c2.5	39.0	1.9		12.9	16	239
10c1.5	43.0	1.5		14.5	11	240
10c2.5	49.0	1.9		16.3	14	340
12c1.5	45.0	1.5		15.1	10	275
12c2.5	52.0	1.9		17.2	13	402
14c1.5	47.0	1.5		15.8	10	313
14c2.5	54.0	1.9		18.1	12	459
16c1.5	51.0	1.5		16.9	9	358
16c2.5	57.0	1.9		19.1	12	516
19c1.5	54.0	1.5		17.9	9	414

Size <i>mm²</i>	Min. Bend Radius <i>mm</i>	Nom. Cond. OD <i>mm</i>	Nom. Ins. OD <i>mm</i>	Nom. Cable OD <i>mm</i>	Current Rating <i>amp</i>	Approx. Wt. <i>kg/km</i>
19c2.5	61.0	1.9		20.3	11	608
24c1.5	63.0	1.5		20.9	8	523
24c2.5	71.0	1.9		23.8	10	768
27c1.5	65.0	1.5		21.5	8	576
33c1.5	70.0	1.5		23.4	7	697
33c2.5	80.0	1.9		26.6	9	1028
37c1.5	73.0	1.5		24.3	7	769

IEC 60092-352:2005 Table B.4 - Current carrying capacities in continuous service, 90°C operating temperature, 45°C ambient air temperature.

There is a +5% tolerance to the NOMINAL values due to manufacturing process variations. TriCab is not liable for any errors, omissions, etc., and reserves the right to modify specifications at any time.

Conductor Comparison - TriCab versus Class 5 & 6 (approximate no.of wires)

Size mm ²	50	70	95	120	150	185	240	300	400	500	630
TriCab	658	969	1216	1672	2052	2508	3256	4144	5368	6832	8784
Class5	378	342	465	587	734	905	1174	1468	1958	1710	2155
Class6	662	927	1258	1589	1987	1401	1817	2272			

Issue 11.0

