

810001101	<b>PRODUCT DATA SHEET</b>	
Valid from: 13.NOV.2025	<b>TCu/R-EP-90/TCu/GP-90-CPE Submersible Screened Rubber</b>	

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**1. Reference Standard(s)**  
Based on EN 50525-2-21

**2. Cable Construction**

- 2.1. Conductor : Fine strands of tinned annealed copper acc. to IEC 60228, Class 5
- 2.2. Core Insulation : R-EP-90 acc. to AS/NZS 3808 and EI4 acc. to EN 50363-1
- 2.3. Core Colour :
  - 1-core White
  - 2-core Brown , Blue
  - 3-core Brown , Blue , Green Yellow
  - 4-core Brown , Black , Grey, Green Yellow
  - 4-core with Pilot Brown , Black , Grey, Green Yellow + Black with white numbers
  - 5-core Brown , Blue , Black , Grey , Green Yellow
  - 6-core and above Black with white numbers, with GreenYellow protective conductor
- 2.4. Separator : For Single core, wrapping tape can be used, no restrictions on material type.  
For multicore, use talcum powder for  $\leq 6\text{mm}^2$ , and non-woven wrapping for  $\geq 10\text{mm}^2$ .
- 2.5. Inner Sheath : For multicore
- 2.6. Screening : Tinned copper wire braiding, min. coverage 70%
- 2.7. Outer Sheath : GP-90-CPE acc. to AS/NZS 3808 and EM2 acc. to EN 50363-2-1
- 2.8. Sheath colour : Black, RAL 9005


**3. Technical Data**

- 3.1. Rated Voltage : 450/750 V (up to 0.6/1 kV AC in protected, static laying acc. to EN 50565-2)  
600/1000 V (acc. to AS/NZS 5000.1)
- 3.2. Test Voltage : 3.5kV AC
- 3.3. Min. Bending Radius : 8 x cable diameter (occasional flexing)  
3 x cable diameter (fixed installation)
- 3.4. Temperature Range : -15°C up to +90°C (occasional flexing)  
-40 °C up to +90°C (fixed installation)
- 3.5. Flame Retardant : In acc. to IEC 60332-1-2
- 3.6. Oil Resistant : In acc. to TM54, EN 50363-2-1
- 3.7. UV Resistant : In acc. to EN 50525-1 (black sheath only)
- 3.8. Water Submersion : Submersible down to 500m depths
- 3.9. EC Directive : 2014/35/EU (Low Voltage Directive)  
2011/65/EU (RoHS)

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#### 4. Dimensional Data

Part No.	No. of core(s) and conductor cross-section	Nominal Insulation Thickness	Nominal Sheath Thickness	Outer Diameter	Approx. Cable Weight
	mm <sup>2</sup>	mm	mm	mm	kg/km
810001101	1 x 1.5	0.8	1.4	7.1 ± 1.0	84
810001102	1 x 2.5	0.9	1.4	7.5 ± 1.0	97
810001103	1 x 4	1.0	1.5	8.3 ± 1.0	121
810001104	1 x 6	1.0	1.6	9.0 ± 1.0	149
810001105	1 x 10	1.2	1.8	10.9 ± 1.0	225
810001106	1 x 16	1.2	1.9	12.4 ± 1.0	316
810001107	1 x 25	1.4	2.0	14.3 ± 1.0	436
810001108	1 x 35	1.4	2.2	16.1 ± 1.0	563
810001109	1 x 50	1.6	2.4	18.4 ± 1.0	758
810001110	1 x 70	1.6	2.6	20.8 ± 1.5	1010
810001111	1 x 95	1.8	2.8	23.5 ± 1.5	1292
810001112	1 x 120	1.8	3.0	25.0 ± 1.5	1556
810001113	1 x 150	2.0	3.2	28.6 ± 1.5	1955
810001114	1 x 185	2.2	3.4	30.7 ± 2.0	2318
810001115	1 x 240	2.4	3.5	33.8 ± 2.0	2917
810001116	1 x 300	2.6	3.6	37.6 ± 2.0	3585
810001117	1 x 400	2.8	3.8	41.1 ± 3.0	4546
810001118	1 x 500	3.0	4.0	46.1 ± 3.0	5662
810001119	1 x 630	3.0	4.1	53.5 ± 3.0	7432
810001120	2 x 1.0	0.8	1.3	11.8 ± 1.0	208
810001121	2 x 1.5	0.8	1.5	12.8 ± 1.0	244
810001122	2 x 2.5	0.9	1.7	14.1 ± 1.0	297
810001123	2 x 4	1.0	1.8	15.4 ± 1.0	362
810001124	2 x 6	1.0	2.0	16.9 ± 1.0	447
810001125	2 x 10	1.2	3.1	23.8 ± 1.5	854
810001126	2 x 16	1.2	3.3	26.5 ± 1.5	1101
810001127	2 x 25	1.4	3.6	31.0 ± 2.0	1534
810001128	2 x 35	1.4	3.8	34.4 ± 2.0	1924
810001129	2 x 50	1.6	4.2	39.5 ± 2.0	2553
810001130	2 x 70	1.6	4.6	44.1 ± 2.0	3275
810001131	2 x 95	1.8	5.0	50.3 ± 3.0	4280
810001132	3G1.0	0.8	1.4	12.6 ± 1.0	237
810001133	3G1.5	0.8	1.6	13.7 ± 1.0	279
810001134	3G2.5	0.9	1.8	15.0 ± 1.0	342
810001135	3G4	1.0	1.9	16.3 ± 1.0	422
810001136	3G6	1.0	2.1	18.0 ± 1.0	526
810001137	3G10	1.2	3.3	25.4 ± 1.5	1006
810001138	3G16	1.2	3.5	28.6 ± 1.5	1338
810001139	3G25	1.4	3.8	33.1 ± 2.0	1838
810001140	3G35	1.4	4.1	37.0 ± 2.0	2335
810001141	3G50	1.6	4.5	42.3 ± 2.0	3116
810001142	3G70	1.6	4.8	47.5 ± 2.0	4093
810001143	3G95	1.8	5.3	54.3 ± 2.0	5297
810001144	3G120	1.8	5.6	57.4 ± 2.0	6242

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	mm <sup>2</sup>	mm	mm	mm	kg/km
810001145	3G150	2.0	6.0	65.1 ± 3.0	7793
810001146	3G185	2.2	6.4	69.9 ± 3.0	9176
810001147	3G240	2.4	7.1	78.0 ± 3.0	11636
810001148	4G1.0	0.8	1.5	13.8 ± 1.0	281
810001149	4G1.5	0.8	1.7	14.9 ± 1.0	332
810001150	4G2.5	0.9	1.9	16.3 ± 1.0	409
810001151	4G4	1.0	2.0	17.8 ± 1.0	508
810001152	4G6	1.0	2.3	20.0 ± 1.0	661
810001153	4G10	1.2	3.4	27.5 ± 1.5	1211
810001154	4G16	1.2	3.6	31.0 ± 2.0	1622
810001155	4G25	1.4	4.1	36.4 ± 2.0	2278
810001156	4G35	1.4	4.4	40.7 ± 3.0	2906
810001157	4G50	1.6	4.8	47.0 ± 3.0	3982
810001158	4G70	1.6	5.2	52.5 ± 3.0	5135
810001159	4G95	1.8	5.9	60.3 ± 3.0	6707
810001160	4G120	1.8	6.0	63.4 ± 3.0	7865
810001161	4G150	2.0	6.5	72.0 ± 3.0	9855
810001162	4G185	2.2	7.0	77.5 ± 3.0	11658
810001163	4G240	2.4	7.7	86.4 ± 3.0	14777
810001164	5G1.0	0.8	1.6	15.1 ± 1.0	328
810001165	5G1.5	0.8	1.8	16.3 ± 1.0	388
810001166	5G2.5	0.9	2.0	17.8 ± 1.0	480
810001167	5G4	1.0	2.2	19.9 ± 1.0	623
810001168	5G6	1.0	2.5	22.0 ± 1.5	798
810001169	5G10	1.2	3.6	30.3 ± 2.0	1474
810001170	5G16	1.2	3.9	34.1 ± 2.0	1955
810001171	5G25	1.4	4.4	40.0 ± 3.0	2753
810001172	5G35	1.4	4.6	44.5 ± 3.0	3497
810001173	5G50	1.6	5.2	51.8 ± 3.0	4843
810001174	5G70	1.6	5.7	58.1 ± 3.0	6278
810001175	5G95	1.8	6.3	66.4 ± 3.0	8165
810001176	5G120	1.8	6.3	69.6 ± 3.0	9565
810001177	5G150	2.0	6.8	79.2 ± 3.0	11991
810001178	5G185	2.2	7.4	85.3 ± 3.0	14219
810001179	7G1.5	0.8	2.5	20.3 ± 1.5	566
810001180	12G1.5	0.8	2.9	25.9 ± 1.5	894
810001181	18G1.5	0.8	3.2	30.0 ± 2.0	1200
810001182	24G1.5	0.8	3.5	34.7 ± 2.0	1540
810001183	36G1.5	0.8	3.8	39.4 ± 2.0	2056

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	mm <sup>2</sup>	mm	mm	mm	kg/km
810001184	7G2.5	0.9	2.7	22.2 ± 1.5	718
810001185	12G2.5	0.9	3.1	28.1 ± 1.5	1092
810001186	18G2.5	0.9	3.5	32.9 ± 2.0	1524
810001187	24G2.5	0.9	3.9	38.3 ± 2.0	1971
810001188	36G2.5	0.9	4.3	43.7 ± 3.0	2660
810001189	4G2.5 + 4G1.5	0.9 + 0.8	1.9	27.2 ± 1.5	1015
810001190	4G4 + 4G1.5	1.0 + 0.8	2.0	27.3 ± 1.5	1080
810001191	4G6 + 4G1.5	1.0 + 0.8	2.3	27.9 ± 1.5	1167
810001192	4G10 + 4G1.5	1.2 + 0.8	3.4	29.7 ± 1.5	1366
810001193	4G16 + 4G1.5	1.2 + 0.8	3.6	31.9 ± 2.0	1699
810001200	4G25 + 4G1.5	1.4 + 0.8	4.1	36.4 ± 2.0	2298
810001194	4G25 + 4G2.5	1.4 + 0.9	4.1	36.4 ± 2.0	2344
810001195	4G35 + 4G2.5	1.4 + 0.9	4.4	40.7 ± 3.0	3015
810001196	4G50 + 4G2.5	1.6 + 0.9	4.8	46.5 ± 3.0	3984
810001197	4G70 + 4G2.5	1.6 + 0.9	5.2	52.4 ± 3.0	5230
810001198	4G95 + 4G2.5	1.8 + 0.9	5.9	60.6 ± 3.0	6747
810001199	4G120 + 4G2.5	1.8 + 0.9	6.0	63.6 ± 3.0	7925

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