

810001001	PRODUCT DATA SHEET	
Valid from: 13.NOV.2025	TCu/R-EP-90/GP-90-CPE <i>Submersible Rubber</i>	

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1. Reference Standard(s)

Based on EN 50525-2-21
Generally Based on IEC 60245-4

2. Cable Construction

- 2.1. Conductor : Fine strands of tinned annealed copper acc. to IEC 60228, Class 5
- 2.2. Core Insulation : EI4 acc. to EN 50363-1 and R-EP-90 acc. to AS/NZS 3808
- 2.3. Core Colour :
 - 1-core White
 - 2-core Brown , Blue
 - 3-core Brown , Blue , Green Yellow
 - 4-core Brown , Black , Grey, Green Yellow
 - 5-core Blue , Brown , 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. Outer Sheath : EM2 acc. to EN 50363-2-1 and GP-90-CPE acc. to AS/NZS 3808
- 2.6. 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 : 2.5kV AC
- 3.3. Min. Bending Radius : Flexing 6 x cable diameter (OD ≤ 20 mm) , 8 x cable diameter (OD > 20 mm)
Fixed 3 x cable diameter (OD ≤ 12 mm) , 4 x cable diameter (OD > 12 mm)
- 3.4. Temperature Range : -25°C up to +90°C (flexing)
-40°C up to +90°C (fixed)
- 3.5. Flame Retardant : In acc. to IEC 60332-1-2
- 3.6. Oil Resistant : In acc. to 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 mm ²	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm	Outer Diameter		Approx. Cable Weight kg/km
				min. mm	Max. mm	
810001001	1 x 1.5	0.8	1.4	5.7	7.1	64
810001002	1 x 2.5	0.9	1.4	6.3	7.9	77
810001003	1 x 4	1.0	1.5	7.2	9.0	97
810001004	1 x 6	1.0	1.6	7.9	9.8	125
810001005	1 x 10	1.2	1.8	9.5	11.9	194
810001006	1 x 16	1.2	1.9	10.8	13.4	264
810001007	1 x 25	1.4	2.0	12.7	15.8	374
810001008	1 x 35	1.4	2.2	14.3	17.9	492
810001009	1 x 50	1.6	2.4	16.5	20.6	675
810001010	1 x 70	1.6	2.6	18.6	23.3	895
810001011	1 x 95	1.8	2.8	20.8	26.0	1158
810001012	1 x 120	1.8	3.0	22.8	28.6	1424
810001013	1 x 150	2.0	3.2	25.2	31.4	1773
810001014	1 x 185	2.2	3.4	27.6	34.4	2120
810001015	1 x 240	2.4	3.5	30.6	38.3	2690
810001016	1 x 300	2.6	3.6	33.5	41.9	3325
810001017	1*400	2.8	3.8	37.4	46.8	4232
810001018	1*500	3.0	4.0	41.3	52.0	5300
810001019	1*630	3.0	4.1	45.5	57.0	6900
810001020	2 x 1.0	0.8	1.3	7.7	10.0	129
810001021	2 x 1.5	0.8	1.5	8.5	11.0	157
810001022	2 x 2.5	0.9	1.7	10.2	13.1	202
810001023	2 x 4	1.0	1.8	11.8	15.1	255
810001024	2 x 6	1.0	2.0	13.1	16.8	335
810001025	2 x 10	1.2	3.1	17.7	22.6	595
810001026	2 x 16	1.2	3.3	20.2	25.7	799
810001027	2 x 25	1.4	3.6	24.3	30.7	1150
810001028	2 x 35	1.4	3.8	27.2	34.3	1494
810001029	2 x 50	1.6	4.2	31.6	39.0	2034
810001030	2 x 70	1.6	4.6	35.6	45.1	2651
810001031	2 x 95	1.8	5.0	40.2	51.0	3442
810001032	3G1.0	0.8	1.4	8.3	10.7	150
810001033	3G1.5	0.8	1.6	9.2	11.9	182
810001034	3G2.5	0.9	1.8	10.9	14.0	237
810001035	3G4	1.0	1.9	12.7	16.2	303
810001036	3G6	1.0	2.1	14.1	18.0	399
810001037	3G10	1.2	3.3	19.1	24.2	717
810001038	3G16	1.2	3.5	21.8	27.6	972
810001039	3G25	1.4	3.8	26.1	33.0	1402
810001040	3G35	1.4	4.1	29.3	37.1	1829
810001041	3G50	1.6	4.5	34.1	42.9	2500

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				min. mm	Max. mm	
810001042	3G70	1.6	4.8	38.4	48.3	2959
810001043	3G95	1.8	5.3	43.3	54.0	3980
810001044	3G120	1.8	5.6	47.4	60.0	4752
810001045	3G150	2.0	6.0	52.0	66.0	5948
810001046	3G185	2.2	6.4	57.0	72.0	7118
810001047	3G240	2.4	7.1	65.0	82.0	9231
810001048	4G1.0	0.8	1.5	9.2	11.9	184
810001049	4G1.5	0.8	1.7	10.2	13.1	224
810001050	4G2.5	0.9	1.9	12.1	15.5	291
810001051	4G4	1.0	2.0	14.0	17.9	374
810001052	4G6	1.0	2.3	15.7	20.0	502
810001053	4G10	1.2	3.4	20.9	26.5	888
810001054	4G16	1.2	3.6	23.8	30.1	1224
810001055	4G25	1.4	4.1	28.9	36.6	1782
810001056	4G35	1.4	4.4	32.5	41.1	2327
810001057	4G50	1.6	4.8	37.7	47.5	3183
810001058	4G70	1.6	5.2	42.7	54	4203
810001059	4G95	1.8	5.9	48.4	61	5551
810001060	4G120	1.8	6.0	53	66	6619
810001061	4G150	2.0	6.5	58	73	8342
810001062	4G185	2.2	7.0	64	80	9971
810001063	4G240	2.4	7.7	72.0	91.0	12092
810001064	5G1.0	0.8	1.6	10.2	13.1	220
810001065	5G1.5	0.8	1.8	11.2	14.4	267
810001066	5G2.5	0.9	2.0	13.3	17.0	348
810001067	5G4	1.0	2.2	15.6	19.9	455
810001068	5G6	1.0	2.5	17.5	22.2	609
810001069	5G10	1.2	3.6	22.9	29.1	1092
810001070	5G16	1.2	3.9	26.4	33.3	1505
810001071	5G25	1.4	4.4	32.0	40.4	2188
810001072	5G35	1.4	4.6	35.7	45.1	2857
810001073	5G50	1.6	5.2	41.8	53	3932
810001074	5G70	1.6	5.7	47.5	60	5232
810001075	5G95	1.8	6.3	54	67	6838
810001076	5G120	1.8	6.3	58.0	73.0	7500
810001077	5G150	2.0	6.8	64.0	80.0	9400
810001078	7G1.5	0.8	2.5	14.0	17.5	378
810001079	8G1.5	0.8	2.7	14.7	19.7	428
810001080	12G1.5	0.8	2.9	17.6	22.4	570
810001081	18G1.5	0.8	3.2	20.7	26.3	835
810001082	24G1.5	0.8	3.5	24.3	30.7	1092
810001083	25G1.5	0.8	3.5	24.3	31.0	1119
810001084	36G1.5	0.8	3.8	27.8	35.2	1527

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810001085	7G2.5	0.9	2.7	16.5	20.0	485
810001086	8G2.5	0.9	2.9	17.1	22.0	549
810001087	12G2.5	0.9	3.1	20.6	26.2	735
810001088	18G2.5	0.9	3.5	24.4	30.9	1106
810001089	24G2.5	0.9	3.9	28.8	36.4	1441
810001090	25G2.5	0.9	3.9	28.8	36.4	1478
810001091	36G2.5	0.9	4.3	33.2	41.8	2037
810001092	7G4	1.0	3.1	20.1	25.5	681
810001093	12G4	1.0	3.5	24.4	30.9	1015
810001094	18G4	1.0	3.9	28.8	36.4	1474

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