

ROUNDFLEX 500-YY

Flexible PVC Control cable



Application

PVC Control cables are suitable for use as both power and control cables in electrical facilities for both fixed laying and flexible applications where the cable is not subject to tensile stresses. It is suitable for use in dry, humid and wet rooms but should only be used outdoors with additional UV protection. It is not suitable for laying underground.



Construction

Conductor :	Fine stranded plain copper according to VDE 0295 Class 5
Insulation:	PVC
Core colour :	According to VDE 0293 - up to 5 wires coloured, 6 wires and above black with white numbers with or without green/yellow earth (please refer to data for specific sizes)
Sheath :	PVC
Sheath colour :	Grey RAL 7001
Imprint :	YY 300/500V

Working Environment

Maximum operating temperature in fixed application :	-30 deg C - + 80 deg C
Maximum operating temperature in mobile application :	-5 deg C - + 70 deg C
Maximum temperature at conductor :	+70 deg C
Environment :	suitable for use in dry, humid & wet room areas

Electrical properties

Nominal voltage :	300/500 V
Test Voltage :	4000 V

Additional information

Minimum bending radius :	Mobile application - 15 x cable diameter Fixed application - 4 x cable diameter
Flame resistance :	Self extinguishing & flame retardant acc. To IEC 332-1

Applied Standards

Similar to DIN VDE 0245, 0250 & 0281





- ① Copper conductor
- ② PVC Insulation
- ③ PVC outer sheath

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Part No	Cross Section mm ²	Current Rating @ 30 Deg	CU Number kg/km	Outer diameter approx. (mm)	Weight kg/km
08051 0050 03	3 G 0.5	10A	15.0	5.2	42
08051 0050 04	4 G 0.5	10A	19.2	5.7	54
08051 0050 05	5 G 0.5	10A	24.0	6.3	63
08051 0050 07	7 G 0.5	10A	33.6	6.8	81
08051 0050 12	12 G 0.5	10A	58.0	9.1	135
08051 0075 02	2 X 0.75	13A	14.4	5.2	56
08051 0075 03	3 G 0.75	13A	21.6	5.6	67
08051 0075 04	4 G 0.75	13A	28.8	6.3	81
08051 0075 05	5 G 0.75	13A	36.0	6.8	99
08051 0075 07	7 G 0.75	13A	49.0	7.5	109
08051 0075 12	12 G 0.75	13A	86.4	10.0	176
08051 0100 02	2 X 1	16A	19.2	5.6	64
08051 0100 03	3 G 1	16A	28.0	6.1	78
08051 0100 04	4 G 1	16A	38.4	6.6	97
08051 0100 05	5 G 1	16A	48.0	7.2	105
08051 0100 07	7 G 1	16A	67.0	8.2	131
08051 0100 12	12 G 1	16A	115.0	10.5	220
08051 0150 02	2 X 1.5	20A	29.0	6.4	87
08051 0150 03	3 G 1.5	20A	43.0	6.8	109
08051 0150 04	4 G 1.5	20A	58.0	7.3	133
08051 0150 05	5 G 1.5	20A	72.0	8.3	163
08051 0150 07	7 G 1.5	20A	101.0	9.1	166
08051 0150 12	12 G 1.5	20A	173.0	12.2	307
08051 0250 02	2 X 2.5	25A	48.0	7.7	128
08051 0250 03	3 G 2.5	25A	72.0	8.3	162
08051 0250 04	4 G 2.5	25A	96.0	9.1	203
08051 0250 05	5 G 2.5	25A	120.0	10.2	242
08051 0250 07	7 G 2.5	25A	168.0	11.3	321
08051 0250 12	12 G 2.5	25A	288.0	15.1	504

We reserve the right to amend all technical details without prior notification

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08051 0400 03	3 G 4	36A	115.2	10.1	214
08051 0400 04	4 G 4	36A	154.0	11.0	297
08051 0400 05	5 G 4	36A	192.0	12.3	355
08051 0400 07	7 G 4	36A	269.0	13.7	471
08051 0400 12	12 G 4	36A	461.0	18.0	790
08051 0600 03	3 G 6	45A	173.0	11.9	318
08051 0600 04	4 G 6	45A	230.0	12.8	394
08051 0600 05	5 G 6	45A	288.0	14.4	489
08051 0600 07	7 G 6	45A	403.0	16.0	625
08051 1000 03	3 G 10	64A	288.0	14.7	516
08051 1000 04	4 G 10	64A	384.0	16.5	650
08051 1000 05	5 G 10	64A	480.0	18.5	792
08051 1000 07	7 G 10	64A	672.0	20.1	1058
08051 1600 03	3 G 16	87A	461.0	17.7	911
08051 1600 04	4 G 16	87A	614.0	20.3	1087
08051 1600 05	5 G 16	87A	768.0	22.6	1370
08051 1600 07	7 G 16	87A	1075.0	24.7	1775
08051 2500 03	3 G 25	115A	720.0	23.5	1388
08051 2500 04	4 G 25	115A	960.0	25.9	1582
08051 2500 05	5 G 25	115A	1200.0	26.4	1998
08051 2500 07	7 G 25	115A	1680.0	32.0	2830
08051 3500 03	3 G 35	140A	1008.0	25.8	1766
08051 3500 04	4 G 35	140A	1344.0	28.8	2106
08051 3500 05	5 G 35	140A	1680.0	35.5	2635
08051 5000 03	3 G 50	180A	1440.0	30.4	2556
08051 5000 04	4 G 50	180A	1920.0	34.7	2943
08051 5000 05	5 G 50	180A	2400.0	39.0	3936
08051 7000 03	3 G 70	210A	2016.0	36.0	3182
08051 7000 04	4 G 70	210A	2688.0	40.2	4092
08051 7000 05	5 G 70	210A	3360.0	45.0	4800
08051 9500 03	3 G 95	250A	2736.0	42.1	4675
08051 9500 04	4 G 95	250A	3648.0	46.7	5538
08051 9500 05	5 G 95	250A	4560.0	51.0	5600
08051 1200 03	3 G 120	292A	3456.0	47.5	5626
08051 1200 04	4 G 120	292A	4608.0	52.9	6994
08051 1500 04	4 G 150	335A	5760.0	60.1	6800
08051 1850 04	4 G 185	382A	7104.0	63.1	8300
08051 2400 05	4 G 240	453A	9216.0	77.6	10550

Other sizes are available on request