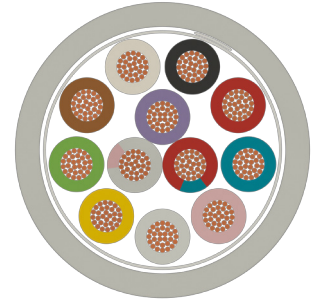


Electronic Control Cables

Signal Cables

LIYY



Application

- At instrumentation and control engineering.
- At industrial electronics.
- Computer and office devices.
- Indoor communication systems.
- Indoor sound systems.

Cable Construction

- 1 - Conductor : Stranded electrolytic copper conductor (Class 5) (IEC 60228, EN 60228, DIN VDE 0295)
- 2 - Insulation : PVC (TS IEC 60189-2, EN 50290-2-21) (DIN 47100)
- 3 - Stranding : In layers
- 4 - Wrapping : Polyester tape
- 5 - Outer Jacket : UV resistant PVC outer jacket. RAL 7035 (Grey)

Technical Characteristics

Cross Section	Conductor Resistance Ω/km (20 °C)	Insulation Resistance $\text{M } \Omega/\text{km}$ (20 °C)	Mutual Capacitance pF/m	Current Carrying Capacity A	Impedance Ω	Inductance mH/km	Operating Voltage V DC	Test Voltage V (DC, 1 minute)
0.14 mm ²	138	200	110	2	78	0.67	250	1200
0.22 mm ²	85	200	110	2.5	78	0.67	250	1200
0.25 mm ²	77.8	200	110	4.5	78	0.67	250	1200
0.34 mm ²	56	200	110	6	78	0.67	250	1200
0.50 mm ²	39	20	120	9	78	0.67	300/500	2000
0.75 mm ²	26	20	120	12	78	0.67	300/500	2000
1.00 mm ²	19.5	20	130	15	78	0.67	300/500	2000
1.5 mm ²	13.3	20	140	18	78	0.67	300/500	2000
2.5 mm ²	7.98	20	150	26	78	0.67	300/500	2000
4.0 mm ²	4.95	20	150	34	78	0.67	300/500	2000
6.0 mm ²	3.3	20	150	44	78	0.67	300/500	2000
10 mm ²	1.91	20	150	61	78	0.67	300/500	2000
16 mm ²	1.21	20	150	82	78	0.67	300/500	2000

Mechanical Characteristics

Bending Radius	Temperature Range Operating
7.5xD mm	-30°C~+70°C

Standards

Flame Retardancy Test
IEC 60332-1-2, EN 60332-1-2, VDE 0482-332-1-2

Notes

Color code could be JZ, OZ, JB, OB according to customer demand.
Reference Standard: DIN VDE 0812

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Part Number	Conductor Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.510.2.2.2.0022.0.0002	2	0.22	3.5	4.3	15	100/500/1000
3.510.2.2.2.0022.0.0003	3	0.22	3.7	6.4	19	100/500/1000
3.510.2.2.2.0022.0.0004	4	0.22	4	8.5	23	100/500/1000
3.510.2.2.2.0022.0.0005	5	0.22	4.5	10.7	29	100/500/1000
3.510.2.2.2.0022.0.0006	6	0.22	4.9	12.8	35	100/500/1000
3.510.2.2.2.0022.0.0007	7	0.22	4.9	14.9	37	100/500/1000
3.510.2.2.2.0022.0.0008	8	0.22	5.5	17.1	46	100/500/1000
3.510.2.2.2.0022.0.0009	9	0.22	5.8	19.2	50	100/500/1000
3.510.2.2.2.0022.0.0010	10	0.22	6.3	21.3	54	100/500/1000
3.510.2.2.2.0022.0.0012	12	0.22	6.6	25.6	63	100/500/1000
3.510.2.2.2.0022.0.0014	14	0.22	7	29.9	72	100/500/1000
3.510.2.2.2.0022.0.0016	16	0.22	7.3	34.1	80	100/500/1000
3.510.2.2.2.0022.0.0018	18	0.22	7.7	38.4	91	100/500/1000
3.510.2.2.2.0022.0.0019	19	0.22	7.8	40.5	93	100/500/1000
3.510.2.2.2.0022.0.0020	20	0.22	8.2	42.7	98	100/500/1000
3.510.2.2.2.0022.0.0021	21	0.22	8.3	44.8	104	100/500/1000
3.510.2.2.2.0022.0.0024	24	0.22	9.1	51.2	117	100/500/1000
3.510.2.2.2.0022.0.0025	25	0.22	9.1	53.3	123	100/500/1000
3.510.2.2.2.0022.0.0027	27	0.22	9.5	57.6	133	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.510.2.2.2.0025.0.0002	2	0.25	3.8	4.8	17	100/500/1000
3.510.2.2.2.0025.0.0003	3	0.25	4	7.2	22	100/500/1000
3.510.2.2.2.0025.0.0004	4	0.25	4.3	9.6	26	100/500/1000
3.510.2.2.2.0025.0.0005	5	0.25	4.8	12	32	100/500/1000
3.510.2.2.2.0025.0.0006	6	0.25	5.2	14.4	39	100/500/1000
3.510.2.2.2.0025.0.0007	7	0.25	5.2	16.8	41	100/500/1000
3.510.2.2.2.0025.0.0008	8	0.25	5.8	19.2	49	100/500/1000
3.510.2.2.2.0025.0.0009	9	0.25	6.2	21.6	54	100/500/1000
3.510.2.2.2.0025.0.0010	10	0.25	6.7	24	60	100/500/1000
3.510.2.2.2.0025.0.0012	12	0.25	7	28.8	70	100/500/1000
3.510.2.2.2.0025.0.0014	14	0.25	7.4	33.6	81	100/500/1000
3.510.2.2.2.0025.0.0016	16	0.25	7.8	34.1	87	100/500/1000
3.510.2.2.2.0025.0.0018	18	0.25	8.2	43.2	102	100/500/1000
3.510.2.2.2.0025.0.0019	19	0.25	8.3	45.6	105	100/500/1000
3.510.2.2.2.0025.0.0020	20	0.25	8.7	48	111	100/500/1000
3.510.2.2.2.0025.0.0021	21	0.25	8.8	50.4	117	100/500/1000
3.510.2.2.2.0025.0.0024	24	0.25	9.7	57.6	132	100/500/1000
3.510.2.2.2.0025.0.0025	25	0.25	9.7	60	138	100/500/1000
3.510.2.2.2.0025.0.0027	27	0.25	10.1	64.8	149	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.510.2.2.2.0034.0.0002	2	0.34	4.3	6.7	22	100/500/1000
3.510.2.2.2.0034.0.0003	3	0.34	4.5	10	28	100/500/1000
3.510.2.2.2.0034.0.0004	4	0.34	4.9	13.3	34	100/500/1000
3.510.2.2.2.0034.0.0005	5	0.34	5.4	16.7	42	100/500/1000
3.510.2.2.2.0034.0.0006	6	0.34	5.9	20	52	100/500/1000
3.510.2.2.2.0034.0.0007	7	0.34	5.9	23.3	54	100/500/1000

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3.510.2.2.2.0034.0.0008	8	0.34	6.5	26.7	65	100/500/1000
3.510.2.2.2.0034.0.0009	9	0.34	7.5	30	74	100/500/1000
3.510.2.2.2.0034.0.0010	10	0.34	7.6	33.3	78	100/500/1000
3.510.2.2.2.0034.0.0012	12	0.34	7.8	40	90	100/500/1000
3.510.2.2.2.0034.0.0014	14	0.34	8.3	46.7	104	100/500/1000
3.510.2.2.2.0034.0.0016	16	0.34	8.7	53.3	116	100/500/1000
3.510.2.2.2.0034.0.0018	18	0.34	9.3	60	133	100/500/1000
3.510.2.2.2.0034.0.0019	19	0.34	9.4	63.3	138	100/500/1000
3.510.2.2.2.0034.0.0020	20	0.34	9.9	66.7	145	100/500/1000
3.510.2.2.2.0034.0.0021	21	0.34	9.9	70	150	100/500/1000
3.510.2.2.2.0034.0.0024	24	0.34	11.1	80	176	100/500/1000
3.510.2.2.2.0034.0.0025	25	0.34	11.1	83.3	184	100/500/1000
3.510.2.2.2.0034.0.0027	27	0.34	11.3	90	193	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.510.2.2.2.0050.0.0002	2	0.5	4.9	8.8	29	100/500/1000
3.510.2.2.2.0050.0.0003	3	0.5	5.2	13.2	37	100/500/1000
3.510.2.2.2.0050.0.0004	4	0.5	5.6	17.6	45	100/500/1000
3.510.3.2.2.0050.0.0005	5	0.5	6.2	22	57	100/500/1000
3.510.3.2.2.0050.0.0006	6	0.5	6.7	26.4	67	100/500/1000
3.510.3.2.2.0050.0.0007	7	0.5	6.7	30.8	70	100/500/1000
3.510.3.2.2.0050.0.0008	8	0.5	7.4	35.2	86	100/500/1000
3.510.3.2.2.0050.0.0009	9	0.5	8.6	39.6	98	100/500/1000
3.510.3.2.2.0050.0.0010	10	0.5	8.6	44	101	100/500/1000
3.510.3.2.2.0050.0.0012	12	0.5	9	52.8	118	100/500/1000
3.510.3.2.2.0050.0.0014	14	0.5	9.5	61.6	136	100/500/1000
3.510.3.2.2.0050.0.0016	16	0.5	10	70.4	152	100/500/1000
3.510.3.2.2.0050.0.0018	18	0.5	10.6	79.2	174	100/500/1000
3.510.3.2.2.0050.0.0019	19	0.5	10.6	83.6	177	100/500/1000
3.510.3.2.2.0050.0.0020	20	0.5	11.2	88	198	100/500/1000
3.510.3.2.2.0050.0.0021	21	0.5	11.2	92.4	204	100/500/1000
3.510.3.2.2.0050.0.0024	24	0.5	12.5	105.6	226	100/500/1000
3.510.3.2.2.0050.0.0025	25	0.5	12.5	110	239	100/500/1000
3.510.3.2.2.0050.0.0027	27	0.5	12.7	118.8	247	100/500/1000
3.510.3.2.2.0050.0.0030	30	0.5	13.3	132	273	100/500/1000
3.510.3.2.2.0050.0.0032	32	0.5	13.8	140.8	293	100/500/1000
3.510.3.2.2.0050.0.0036	36	0.5	14.4	158.5	326	100/500/1000
3.510.3.2.2.0050.0.0040	40	0.5	15.1	176.1	371	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.510.2.2.2.0075.0.0002	2	0.75	5.3	13.2	35	100/500/1000
3.510.2.2.2.0075.0.0003	3	0.75	5.6	19.8	46	100/500/1000
3.510.2.2.2.0075.0.0004	4	0.75	6.1	26.4	57	100/500/1000
3.510.3.2.2.0075.0.0005	5	0.75	6.7	33	72	100/500/1000
3.510.3.2.2.0075.0.0006	6	0.75	7.3	39.6	85	100/500/1000
3.510.3.2.2.0075.0.0007	7	0.75	7.3	46.2	90	100/500/1000
3.510.3.2.2.0075.0.0008	8	0.75	8.1	52.8	110	100/500/1000
3.510.3.2.2.0075.0.0009	9	0.75	9.4	59.4	125	100/500/1000
3.510.3.2.2.0075.0.0010	10	0.75	9.4	66	130	100/500/1000
3.510.3.2.2.0075.0.0012	12	0.75	9.8	79.2	152	100/500/1000
3.510.3.2.2.0075.0.0014	14	0.75	10.4	92.4	175	100/500/1000

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3.510.3.2.2.0075.0.0016	16	0.75	10.9	105.6	196	100/500/1000
3.510.3.2.2.0075.0.0018	18	0.75	11.6	118.8	225	100/500/1000
3.510.3.2.2.0075.0.0019	19	0.75	11.6	125.4	229	100/500/1000
3.510.3.2.2.0075.0.0020	20	0.75	12.2	132	256	100/500/1000
3.510.3.2.2.0075.0.0021	21	0.75	12.2	138.6	264	100/500/1000
3.510.3.2.2.0075.0.0024	24	0.75	13.7	158.5	292	100/500/1000
3.510.3.2.2.0075.0.0025	25	0.75	13.7	165.1	310	100/500/1000
3.510.3.2.2.0075.0.0027	27	0.75	14	178.3	321	100/500/1000
3.510.3.2.2.0075.0.0030	30	0.75	14.6	198.1	355	100/500/1000
3.510.3.2.2.0075.0.0032	32	0.75	15.1	211.3	381	100/500/1000
3.510.3.2.2.0075.0.0036	36	0.75	15.8	237.7	425	100/500/1000
3.510.3.2.2.0075.0.0040	40	0.75	16.5	264.1	483	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.510.2.2.2.0100.0.0002	2	1	5.7	16.5	41	100/500/1000
3.510.2.2.2.0100.0.0003	3	1	6	24.8	54	100/500/1000
3.510.3.2.2.0100.0.0004	4	1	6.7	33	69	100/500/1000
3.510.3.2.2.0100.0.0005	5	1	7.4	41.3	87	100/500/1000
3.510.3.2.2.0100.0.0006	6	1	8	49.5	104	100/500/1000
3.510.3.2.2.0100.0.0007	7	1	8	57.8	110	100/500/1000
3.510.3.2.2.0100.0.0008	8	1	8.8	66	133	100/500/1000
3.510.3.2.2.0100.0.0009	9	1	10.3	74.3	151	100/500/1000
3.510.3.2.2.0100.0.0010	10	1	10.3	82.5	158	100/500/1000
3.510.3.2.2.0100.0.0012	12	1	10.7	99	185	100/500/1000
3.510.3.2.2.0100.0.0014	14	1	11.4	115.5	213	100/500/1000
3.510.3.2.2.0100.0.0016	16	1	12	132	239	100/500/1000
3.510.3.2.2.0100.0.0018	18	1	12.7	148.5	273	100/500/1000
3.510.3.2.2.0100.0.0019	19	1	12.7	156.8	279	100/500/1000
3.510.3.2.2.0100.0.0020	20	1	13.4	165.1	312	100/500/1000
3.510.3.2.2.0100.0.0021	21	1	13.4	173.3	322	100/500/1000
3.510.3.2.2.0100.0.0024	24	1	14.9	198.1	355	100/500/1000
3.510.3.2.2.0100.0.0025	25	1	14.9	206.3	373	100/500/1000
3.510.3.2.2.0100.0.0027	27	1	15.2	222.8	387	100/500/1000
3.510.3.2.2.0100.0.0030	30	1	15.9	247.6	428	100/500/1000
3.510.3.2.2.0100.0.0032	32	1	16.5	264.1	460	100/500/1000
3.510.3.2.2.0100.0.0036	36	1	17.2	297.1	513	100/500/1000
3.510.3.2.2.0100.0.0040	40	1	18	330.1	583	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.510.2.2.2.0150.0.0002	2	1.5	6.4	25.7	55	100/500/1000
3.510.2.2.2.0150.0.0003	3	1.5	6.8	38.6	73	100/500/1000
3.510.2.2.2.0150.0.0004	4	1.5	7.5	51.4	93	100/500/1000
3.510.3.2.2.0150.0.0005	5	1.5	8.3	64.3	118	100/500/1000
3.510.3.2.2.0150.0.0006	6	1.5	9	77.2	141	100/500/1000
3.510.3.2.2.0150.0.0007	7	1.5	9	90	151	100/500/1000
3.510.3.2.2.0150.0.0008	8	1.5	9.9	102.9	182	100/500/1000
3.510.3.2.2.0150.0.0009	9	1.5	11.6	115.7	206	100/500/1000
3.510.3.2.2.0150.0.0010	10	1.5	11.6	128.6	216	100/500/1000
3.510.3.2.2.0150.0.0012	12	1.5	12.1	154.3	254	100/500/1000
3.510.3.2.2.0150.0.0014	14	1.5	12.8	180	293	100/500/1000
3.510.3.2.2.0150.0.0016	16	1.5	13.5	205.7	329	100/500/1000

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3.510.3.2.2.0150.0.0018	18	1.5	14.3	231.5	376	100/500/1000
3.510.3.2.2.0150.0.0019	19	1.5	14.3	244.3	386	100/500/1000
3.510.3.2.2.0150.0.0020	20	1.5	15.1	257.2	430	100/500/1000
3.510.3.2.2.0150.0.0021	21	1.5	15.1	270	442	100/500/1000
3.510.3.2.2.0150.0.0024	24	1.5	16.9	308.6	490	100/500/1000
3.510.3.2.2.0150.0.0025	25	1.5	16.9	321.5	519	100/500/1000
3.510.3.2.2.0150.0.0027	27	1.5	17.3	347.2	541	100/500/1000
3.510.3.2.2.0150.0.0030	30	1.5	17.9	385.8	594	100/500/1000
3.510.3.2.2.0150.0.0032	32	1.5	18.6	411.5	638	100/500/1000
3.510.3.2.2.0150.0.0036	36	1.5	19.4	462.9	712	100/500/1000
3.510.3.2.2.0150.0.0040	40	1.5	20.2	514.4	802	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.510.2.2.2.0250.0.0002	2	2.5	7.6	42.9	80	100/500/1000
3.510.2.2.2.0250.0.0003	3	2.5	8.1	64.3	108	100/500/1000
3.510.3.2.2.0250.0.0004	4	2.5	9	85.7	142	100/500/1000
3.510.3.2.2.0250.0.0005	5	2.5	10.1	107.2	183	100/500/1000
3.510.3.2.2.0250.0.0006	6	2.5	11	128.6	220	100/500/1000
3.510.3.2.2.0250.0.0007	7	2.5	11	150	235	100/500/1000
3.510.3.2.2.0250.0.0008	8	2.5	12.1	171.5	283	100/500/1000
3.510.3.2.2.0250.0.0009	9	2.5	14.2	192.9	321	100/500/1000
3.510.3.2.2.0250.0.0010	10	2.5	14.2	214.3	337	100/500/1000
3.510.3.2.2.0250.0.0012	12	2.5	14.8	257.2	396	100/500/1000
3.510.3.2.2.0250.0.0014	14	2.5	15.6	300	458	100/500/1000
3.510.3.2.2.0250.0.0016	16	2.5	16.5	342.9	516	100/500/1000
3.510.3.2.2.0250.0.0018	18	2.5	17.5	385.8	590	100/500/1000
3.510.3.2.2.0250.0.0019	19	2.5	17.5	407.2	605	100/500/1000
3.510.3.2.2.0250.0.0020	20	2.5	18.5	428.6	675	100/500/1000
3.510.3.2.2.0250.0.0021	21	2.5	18.5	450.1	665	100/500/1000
3.510.3.2.2.0250.0.0024	24	2.5	20.6	514.4	762	100/500/1000
3.510.3.2.2.0250.0.0025	25	2.5	20.6	535.8	810	100/500/1000
3.510.3.2.2.0250.0.0027	27	2.5	21	578.7	844	100/500/1000
3.510.3.2.2.0250.0.0030	30	2.5	21.9	643	935	100/500/1000
3.510.3.2.2.0250.0.0032	32	2.5	22.8	685.8	1004	100/500/1000
3.510.3.2.2.0250.0.0036	36	2.5	23.8	771.6	1123	100/500/1000
3.510.3.2.2.0250.0.0040	40	2.5	24.8	857.3	1269	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.510.3.2.2.0400.0.0002	2	4	8.7	68.6	122	100/500/1000
3.510.3.2.2.0400.0.0003	3	4	9.3	102.9	155	100/500/1000
3.510.3.2.2.0400.0.0004	4	4	10.3	137.2	204	100/500/1000
3.510.3.2.2.0400.0.0005	5	4	11.5	171.5	261	100/500/1000
3.510.3.2.2.0400.0.0006	6	4	12.6	205.7	314	100/500/1000
3.510.3.2.2.0400.0.0007	7	4	12.6	240	339	100/500/1000
3.510.3.2.2.0400.0.0008	8	4	13.9	274.3	407	100/500/1000
3.510.3.2.2.0400.0.0009	9	4	16.3	308.6	460	100/500/1000
3.510.3.2.2.0400.0.0010	10	4	16.3	342.9	485	100/500/1000
3.510.3.2.2.0400.0.0012	12	4	17	411.5	573	100/500/1000
3.510.3.2.2.0400.0.0014	14	4	17.9	480.1	662	100/500/1000
3.510.3.2.2.0400.0.0016	16	4	18.9	548.7	748	100/500/1000
3.510.3.2.2.0400.0.0018	18	4	20.1	617.2	854	100/500/1000
3.510.3.2.2.0400.0.0019	19	4	20.1	651.5	879	100/500/1000
3.510.3.2.2.0400.0.0020	20	4	21.2	685.8	976	100/500/1000

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Part Number	Conductor Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.510.3.2.2.0600.0.0002	2	6	10.6	102.9	180	100/500/1000
3.510.3.2.2.0600.0.0003	3	6	11.3	154.3	229	100/500/1000
3.510.3.2.2.0600.0.0004	4	6	12.6	205.7	302	100/500/1000
3.510.3.2.2.0600.0.0005	5	6	14.1	257.2	387	100/500/1000
3.510.3.2.2.0600.0.0006	6	6	15.4	308.6	468	100/500/1000
3.510.3.2.2.0600.0.0007	7	6	15.4	360.1	505	100/500/1000
3.510.3.2.2.0600.0.0008	8	6	16.8	411.5	597	100/500/1000
3.510.3.2.2.0600.0.0009	9	6	20	462.9	684	100/500/1000
3.510.3.2.2.0600.0.0010	10	6	20	514.4	722	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.510.3.2.2.1000.0.0002	2	10	13.3	178	300	100/500/1000
3.510.3.2.2.1000.0.0003	3	10	14.1	267	383	100/500/1000
3.510.3.2.2.1000.0.0004	4	10	15.6	356	495	100/500/1000
3.510.3.2.2.1000.0.0005	5	10	17.2	445	625	100/500/1000
3.510.3.2.2.1000.0.0006	6	10	18.9	534	758	100/500/1000
3.510.3.2.2.1000.0.0007	7	10	19.2	623	837	100/500/1000
3.510.3.2.2.1000.0.0008	8	10	20.6	712	974	100/500/1000
3.510.3.2.2.1000.0.0009	9	10	24.4	801	1107	100/500/1000
3.510.3.2.2.1000.0.0010	10	10	24.5	890	1178	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.510.3.2.2.1600.0.0002	2	16	17.3	280.4	466	100/500/1000
3.510.3.2.2.1600.0.0003	3	16	18.4	420.6	618	100/500/1000
3.510.3.2.2.1600.0.0004	4	16	20.3	560.9	801	100/500/1000
3.510.3.2.2.1600.0.0005	5	16	22.5	701.1	1018	100/500/1000
3.510.3.2.2.1600.0.0006	6	16	24.9	841.3	1245	100/500/1000
3.510.3.2.2.1600.0.0007	7	16	24.9	981.5	1347	100/500/1000
3.510.3.2.2.1600.0.0008	8	16	27.2	1121.7	1600	100/500/1000
3.510.3.2.2.1600.0.0009	9	16	32.2	1261.9	1807	100/500/1000
3.510.3.2.2.1600.0.0010	10	16	32.3	1402.1	1918	100/500/1000