



Application

- Due to its flexible construction, could be used in narrow spaces.
- At instrumentation and control engineering.
- At industrial electronics.
- As a measurement and control cable in machinery.
- In production and assembly lines.
- Wet, dry and moist places.
- For applications with medium level mechanical stress.
- Fuel oil pumps.

Cable Construction

- 1 - Conductor : Stranded electrolytic annealed copper conductor (Class 5) (IEC 60228, EN 60228, DIN VDE 0295)
- 2 - Insulation : PVC (DIN VDE 0207, EN 50363-3, TS EN 50290-2-21 T12), Black insulation, white number coded (DIN VDE 0293, TS EN 50334)
- 3 - Stranding : In layers
- 4 - Wrapping : Polyester tape
- 5 - Screen : Tinned copper braiding
- 4 - Outer Jacket: UV resistant PVC outer jacket (EN 50363-4-1, DIN VDE 207 TM2). RAL 7001 (Grey)

Technical Characteristics

Cross Section	Conductor Resistance Ω/km (20 °C)	Insulation Resistance MΩ/km	Current Carrying Capacity A	Test Voltage V (DC, 1 minute)	Operating Voltage V DC
0.50 mm ²	39.0	20	9	2500	450/750
0.75 mm ²	26.0	20	12	2500	450/750
1.00 mm ²	19.5	20	15	2500	450/750
1.5 mm ²	13.3	20	18	2500	450/750
2.5 mm ²	7.98	20	26	2500	450/750
4.0 mm ²	4.95	20	34	2500	450/750
6.0 mm ²	3.30	20	44	2500	450/750
10.0 mm ²	1.91	20	61	2500	450/750
16.0 mm ²	1.21	20	82	2500	450/750

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

Electromagnetic compatibility (EMC)
 Color code could be JZ, OZ, JB, OB according to customer demand.
 For cables with two cores, Yellow/Green earthing wire is not included.
 Reference Standard: DIN EN 50525-2-51, VDE 0285-525-2-51

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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)
3.611.3.2.2.0050.1.0002	2	0.5	6.5	25.4	64	100/500/1000
3.611.3.2.2.0050.0.0003	3	0.5	7.0	30.0	80	100/500/1000
3.611.3.2.2.0050.0.0004	4	0.5	7.5	36.3	94	100/500/1000
3.611.3.2.2.0050.0.0005	5	0.5	8.3	42.4	109	100/500/1000
3.611.3.2.2.0050.0.0006	6	0.5	9.1	51.5	127	100/500/1000
3.611.3.2.2.0050.0.0007	7	0.5	9.1	55.8	135	100/500/1000
3.611.3.2.2.0050.0.0008	8	0.5	9.8	60.3	154	100/500/1000
3.611.3.2.2.0050.0.0009	9	0.5	11.6	69.6	182	100/500/1000
3.611.3.2.2.0050.0.0010	10	0.5	11.6	74.0	185	100/500/1000
3.611.3.2.2.0050.0.0012	12	0.5	12.0	83.3	206	100/500/1000
3.611.3.2.2.0050.0.0014	14	0.5	12.7	96.5	236	100/500/1000
3.611.3.2.2.0050.0.0016	16	0.5	13.4	108.3	265	100/500/1000
3.611.3.2.2.0050.0.0018	18	0.5	14.1	118.3	295	100/500/1000
3.611.3.2.2.0050.0.0020	20	0.5	15.0	138.8	327	100/500/1000
3.611.3.2.2.0050.0.0024	24	0.5	16.8	163.6	394	100/500/1000
3.611.3.2.2.0050.0.0025	25	0.5	16.8	168.0	410	100/500/1000
3.611.3.2.2.0050.0.0027	27	0.5	17.2	177.6	426	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)
3.611.3.2.2.0075.1.0002	2	0.75	6.9	29.9	72	100/500/1000
3.611.3.2.2.0075.0.0003	3	0.75	7.3	37.4	87	100/500/1000
3.611.3.2.2.0075.0.0004	4	0.75	8.0	45.3	105	100/500/1000
3.611.3.2.2.0075.0.0005	5	0.75	8.7	56.2	128	100/500/1000
3.611.3.2.2.0075.0.0006	6	0.75	9.5	64.5	150	100/500/1000
3.611.3.2.2.0075.0.0007	7	0.75	9.5	71.1	155	100/500/1000
3.611.3.2.2.0075.0.0008	8	0.75	10.4	79.1	182	100/500/1000
3.611.3.2.2.0075.0.0009	9	0.75	12.3	93.8	216	100/500/1000
3.611.3.2.2.0075.0.0010	10	0.75	12.3	100.4	221	100/500/1000
3.611.3.2.2.0075.0.0012	12	0.75	12.7	114.1	248	100/500/1000
3.611.3.2.2.0075.0.0014	14	0.75	13.4	130.2	281	100/500/1000
3.611.3.2.2.0075.0.0016	16	0.75	14.1	144.6	310	100/500/1000
3.611.3.2.2.0075.0.0018	18	0.75	15.0	170.0	362	100/500/1000
3.611.3.2.2.0075.0.0020	20	0.75	15.9	184.3	388	100/500/1000
3.611.3.2.2.0075.0.0024	24	0.75	17.9	218.5	471	100/500/1000
3.611.3.2.2.0075.0.0025	25	0.75	17.9	225.1	490	100/500/1000
3.611.3.2.2.0075.0.0027	27	0.75	18.3	239.2	511	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)
3.611.3.2.2.0100.1.0002	2	1	7.3	34.1	81	100/500/1000
3.611.3.2.2.0100.0.0003	3	1	7.7	43.5	98	100/500/1000
3.611.3.2.2.0100.0.0004	4	1	8.5	53.5	119	100/500/1000
3.611.3.2.2.0100.0.0005	5	1	9.3	66.1	148	100/500/1000
3.611.3.2.2.0100.0.0006	6	1	10.2	74.8	173	100/500/1000
3.611.3.2.2.0100.0.0007	7	1	10.2	83.0	179	100/500/1000
3.611.3.2.2.0100.0.0008	8	1	11.2	94.0	211	100/500/1000
3.611.3.2.2.0100.0.0009	9	1	13.1	111.8	248	100/500/1000

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3.611.3.2.2.0100.00010	10	1	13.1	120.0	254	100/500/1000
3.611.3.2.2.0100.00012	12	1	13.6	137.2	289	100/500/1000
3.611.3.2.2.0100.00014	14	1	14.3	162.0	330	100/500/1000
3.611.3.2.2.0100.00016	16	1	15.2	183.0	371	100/500/1000
3.611.3.2.2.0100.00018	18	1	16.1	201.1	419	100/500/1000
3.611.3.2.2.0100.00020	20	1	17.2	223.6	458	100/500/1000
3.611.3.2.2.0100.00024	24	1	19.3	261.2	552	100/500/1000
3.611.3.2.2.0100.00025	25	1	19.3	269.4	574	100/500/1000
3.611.3.2.2.0100.00027	27	1	19.7	286.9	599	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)
3.611.3.2.2.0150.1.0002	2	1.5	7.7	44.4	94	100/500/1000
3.611.3.2.2.0150.0.0003	3	1.5	8.2	58.7	119	100/500/1000
3.611.3.2.2.0150.0.0004	4	1.5	9.1	76.2	148	100/500/1000
3.611.3.2.2.0150.0.0005	5	1.5	9.9	89.3	176	100/500/1000
3.611.3.2.2.0150.0.0006	6	1.5	10.8	104.9	208	100/500/1000
3.611.3.2.2.0150.0.0007	7	1.5	10.8	117.7	219	100/500/1000
3.611.3.2.2.0150.0.0008	8	1.5	11.8	132.9	257	100/500/1000
3.611.3.2.2.0150.0.0009	9	1.5	14.0	154.5	302	100/500/1000
3.611.3.2.2.0150.0.0010	10	1.5	14.0	167.3	311	100/500/1000
3.611.3.2.2.0150.0.0012	12	1.5	14.6	200.9	363	100/500/1000
3.611.3.2.2.0150.0.0014	14	1.5	15.3	231.0	410	100/500/1000
3.611.3.2.2.0150.0.0016	16	1.5	16.2	258.4	459	100/500/1000
3.611.3.2.2.0150.0.0018	18	1.5	17.3	290.0	526	100/500/1000
3.611.3.2.2.0150.0.0020	20	1.5	18.4	318.1	572	100/500/1000
3.611.3.2.2.0150.0.0024	24	1.5	20.7	374.5	688	100/500/1000
3.611.3.2.2.0150.0.0025	25	1.5	20.7	387.3	717	100/500/1000
3.611.3.2.2.0150.0.0027	27	1.5	21.2	414.1	750	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)
3.611.3.2.2.0250.1.0002	2	2.5	9.3	67.6	139	100/500/1000
3.611.3.2.2.0250.0.0003	3	2.5	9.9	89.3	173	100/500/1000
3.611.3.2.2.0250.0.0004	4	2.5	10.8	113.4	213	100/500/1000
3.611.3.2.2.0250.0.0005	5	2.5	12.0	137.4	262	100/500/1000
3.611.3.2.2.0250.0.0006	6	2.5	13.2	165.9	316	100/500/1000
3.611.3.2.2.0250.0.0007	7	2.5	13.2	187.3	332	100/500/1000
3.611.3.2.2.0250.0.0008	8	2.5	14.5	217.7	400	100/500/1000
3.611.3.2.2.0250.0.0009	9	2.5	17.2	251.5	469	100/500/1000
3.611.3.2.2.0250.0.0010	10	2.5	17.2	272.8	485	100/500/1000
3.611.3.2.2.0250.0.0012	12	2.5	18.0	317.0	560	100/500/1000
3.611.3.2.2.0250.0.0014	14	2.5	18.9	362.0	630	100/500/1000
3.611.3.2.2.0250.0.0016	16	2.5	20.1	407.5	712	100/500/1000
3.611.3.2.2.0250.0.0018	18	2.5	21.6	453.2	821	100/500/1000
3.611.3.2.2.0250.0.0020	20	2.5	23.0	499.2	892	100/500/1000
3.611.3.2.2.0250.0.0024	24	2.5	25.7	591.4	1068	100/500/1000
3.611.3.2.2.0250.0.0025	25	2.5	25.7	612.7	1114	100/500/1000
3.611.3.2.2.0250.0.0027	27	2.5	26.5	656.9	1181	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)
3.611.3.2.2.0400.1.0002	2	4	10.7	95.1	187	100/500/1000
3.611.3.2.2.0400.0.0003	3	4	11.5	132.9	243	100/500/1000
3.611.3.2.2.0400.0.0004	4	4	12.6	171.6	302	100/500/1000
3.611.3.2.2.0400.0.0005	5	4	13.9	209.8	372	100/500/1000
3.611.3.2.2.0400.0.0006	6	4	15.3	256.6	453	100/500/1000
3.611.3.2.2.0400.0.0007	7	4	15.3	290.8	477	100/500/1000
3.611.3.2.2.0400.0.0008	8	4	17.0	331.7	572	100/500/1000
3.611.3.2.2.0400.0.0009	9	4	20.4	373.7	675	100/500/1000
3.611.3.2.2.0400.0.0010	10	4	20.4	407.8	699	100/500/1000
3.611.3.2.2.0400.0.0012	12	4	21.1	478.0	799	100/500/1000
3.611.3.2.2.0400.0.0014	14	4	22.3	529.5	895	100/500/1000
3.611.3.2.2.0400.0.0016	16	4	24.1	660.7	1082	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)
3.611.3.2.2.0600.1.0002	2	6	12.5	137.3	260	100/500/1000
3.611.3.2.2.0600.0.0003	3	6	13.4	191.8	339	100/500/1000
3.611.3.2.2.0600.0.0004	4	6	14.8	255.5	429	100/500/1000
3.611.3.2.2.0600.0.0005	5	6	16.3	309.8	527	100/500/1000
3.611.3.2.2.0600.0.0006	6	6	18.2	368.8	644	100/500/1000
3.611.3.2.2.0600.0.0007	7	6	18.2	420.0	682	100/500/1000
3.611.3.2.2.0600.0.0008	8	6	20.0	475.4	804	100/500/1000
3.611.3.2.2.0600.0.0009	9	6	24.2	536.4	954	100/500/1000
3.611.3.2.2.0600.0.0010	10	6	24.2	587.6	992	100/500/1000
3.611.3.2.2.0600.0.0012	12	6	25.2	692.3	1149	100/500/1000
3.611.3.2.2.0600.0.0014	14	6	26.6	776.3	1293	100/500/1000
3.611.3.2.2.0600.0.0016	16	6	28.4	949.7	1526	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)
3.611.3.2.2.1000.1.0002	2	10	15.1	228.6	400	100/500/1000
3.611.3.2.2.1000.0.0003	3	10	16.2	319.3	523	100/500/1000
3.611.3.2.2.1000.0.0004	4	10	18.2	415.8	669	100/500/1000
3.611.3.2.2.1000.0.0005	5	10	20.4	509.3	840	100/500/1000
3.611.3.2.2.1000.0.0006	6	10	22.4	603.1	1006	100/500/1000
3.611.3.2.2.1000.0.0007	7	10	22.4	691.7	1071	100/500/1000
3.611.3.2.2.1000.0.0008	8	10	24.8	785.8	1275	100/500/1000
3.611.3.2.2.1000.0.0009	9	10	29.6	887.1	1482	100/500/1000
3.611.3.2.2.1000.0.0010	10	10	29.6	975.7	1547	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)
3.611.3.2.2.1600.1.0002	2	16	18.1	360.7	532	100/500/1000
3.611.3.2.2.1600.0.0003	3	16	19.5	503.3	721	100/500/1000
3.611.3.2.2.1600.0.0004	4	16	21.8	656.1	937	100/500/1000
3.611.3.2.2.1600.0.0005	5	16	24.3	802.7	1187	100/500/1000
3.611.3.2.2.1600.0.0006	6	16	26.8	904.6	1447	100/500/1000
3.611.3.2.2.1600.0.0007	7	16	26.8	1036.8	1562	100/500/1000
3.611.3.2.2.1600.0.0008	8	16	29.3	1181.6	1821	100/500/1000
3.611.3.2.2.1600.0.0009	9	16	34.4	1.333.1	2057	100/500/1000
3.611.3.2.2.1600.0.0010	10	16	34.4	1.472.6	2179	100/500/1000