



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 - Inner Jacket: UV resistant PVC inner jacket (EN 50363-4-1, DIN VDE 207 TM2). RAL 7001 (Grey)
- 5 - Screen : Tinned copper braiding
- 6 - Outer Jacket: UV resistant PVC outer jacket (EN 50363-4-1, DIN VDE 207 TM2). RAL 7001 (Grey) or Transparent

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)
3.612.3.2.2.0050.1.0002	2	0.5	7.9	30.5	95	100/500/1000
3.612.3.2.2.0050.0.0003	3	0.5	8.3	36.5	109	100/500/1000
3.612.3.2.2.0050.0.0004	4	0.5	9.1	46.5	133	100/500/1000
3.612.3.2.2.0050.0.0005	5	0.5	9.9	53.7	156	100/500/1000
3.612.3.2.2.0050.0.0006	6	0.5	10.6	54.7	170	100/500/1000
3.612.3.2.2.0050.0.0007	7	0.5	10.6	59.1	178	100/500/1000
3.612.3.2.2.0050.0.0008	8	0.5	11.5	67.9	210	100/500/1000
3.612.3.2.2.0050.0.0009	9	0.5	13.3	85.8	254	100/500/1000
3.612.3.2.2.0050.0.0010	10	0.5	13.3	90.2	257	100/500/1000
3.612.3.2.2.0050.0.0012	12	0.5	13.8	99.8	284	100/500/1000
3.612.3.2.2.0050.0.0014	14	0.5	14.5	112.7	316	100/500/1000
3.612.3.2.2.0050.0.0016	16	0.5	15.3	123.2	348	100/500/1000
3.612.3.2.2.0050.0.0018	18	0.5	16.0	137.4	390	100/500/1000
3.612.3.2.2.0050.0.0020	20	0.5	16.9	167.6	431	100/500/1000
3.612.3.2.2.0050.0.0024	24	0.5	18.7	196.2	510	100/500/1000
3.612.3.2.2.0050.0.0025	25	0.5	18.7	200.6	526	100/500/1000
3.612.3.2.2.0050.0.0027	27	0.5	19.1	210.4	544	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)
3.612.3.2.2.0075.1.0002	2	0.75	8.2	36.4	105	100/500/1000
3.612.3.2.2.0075.0.0003	3	0.75	8.7	48.3	127	100/500/1000
3.612.3.2.2.0075.0.0004	4	0.75	9.5	57.6	149	100/500/1000
3.612.3.2.2.0075.0.0005	5	0.75	10.3	59.8	171	100/500/1000
3.612.3.2.2.0075.0.0006	6	0.75	11.2	71.9	202	100/500/1000
3.612.3.2.2.0075.0.0007	7	0.75	11.2	78.5	206	100/500/1000
3.612.3.2.2.0075.0.0008	8	0.75	12.1	87.8	241	100/500/1000
3.612.3.2.2.0075.0.0009	9	0.75	14.1	106.8	292	100/500/1000
3.612.3.2.2.0075.0.0010	10	0.75	14.1	113.4	296	100/500/1000
3.612.3.2.2.0075.0.0012	12	0.75	14.5	130.5	328	100/500/1000
3.612.3.2.2.0075.0.0014	14	0.75	15.3	145.2	364	100/500/1000
3.612.3.2.2.0075.0.0016	16	0.75	16.1	163.9	405	100/500/1000
3.612.3.2.2.0075.0.0018	18	0.75	16.9	198.4	465	100/500/1000
3.612.3.2.2.0075.0.0020	20	0.75	17.9	213.6	501	100/500/1000
3.612.3.2.2.0075.0.0024	24	0.75	19.8	252.1	594	100/500/1000
3.612.3.2.2.0075.0.0025	25	0.75	19.8	258.7	613	100/500/1000
3.612.3.2.2.0075.0.0027	27	0.75	20.3	273.0	641	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)
3.612.3.2.2.0100.1.0002	2	1	8.7	45.0	121	100/500/1000
3.612.3.2.2.0100.0.0003	3	1	9.3	55.7	144	100/500/1000
3.612.3.2.2.0100.0.0004	4	1	10.0	59.6	162	100/500/1000
3.612.3.2.2.0100.0.0005	5	1	10.9	69.8	194	100/500/1000
3.612.3.2.2.0100.0.0006	6	1	12.0	84.3	232	100/500/1000
3.612.3.2.2.0100.0.0007	7	1	12.0	92.5	238	100/500/1000
3.612.3.2.2.0100.0.0008	8	1	12.9	104.2	276	100/500/1000
3.612.3.2.2.0100.0.0009	9	1	15.0	126.6	333	100/500/1000
3.612.3.2.2.0100.0.0010	10	1	15.0	134.8	339	100/500/1000

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3.612.3.2.2.0100.0.0012	12	1	15.5	152.3	373	100/500/1000
3.612.3.2.2.0100.0.0014	14	1	16.3	194.0	437	100/500/1000
3.612.3.2.2.0100.0.0016	16	1	17.1	212.0	476	100/500/1000
3.612.3.2.2.0100.0.0018	18	1	18.2	237.6	544	100/500/1000
3.612.3.2.2.0100.0.0020	20	1	19.1	256.5	577	100/500/1000
3.612.3.2.2.0100.0.0024	24	1	21.1	295.3	677	100/500/1000
3.612.3.2.2.0100.0.0025	25	1	21.1	303.5	700	100/500/1000
3.612.3.2.2.0100.0.0027	27	1	21.5	331.2	736	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)
3.612.3.2.2.0150.1.0002	2	1.5	9.2	56.6	140	100/500/1000
3.612.3.2.2.0150.0.0003	3	1.5	9.8	70.2	166	100/500/1000
3.612.3.2.2.0150.0.0004	4	1.5	10.6	79.7	190	100/500/1000
3.612.3.2.2.0150.0.0005	5	1.5	11.6	98.7	233	100/500/1000
3.612.3.2.2.0150.0.0006	6	1.5	12.7	114.9	274	100/500/1000
3.612.3.2.2.0150.0.0007	7	1.5	12.7	127.8	284	100/500/1000
3.612.3.2.2.0150.0.0008	8	1.5	13.6	149.5	331	100/500/1000
3.612.3.2.2.0150.0.0009	9	1.5	15.8	169.8	388	100/500/1000
3.612.3.2.2.0150.0.0010	10	1.5	15.8	182.7	397	100/500/1000
3.612.3.2.2.0150.0.0012	12	1.5	16.5	233.1	468	100/500/1000
3.612.3.2.2.0150.0.0014	14	1.5	17.4	260.6	525	100/500/1000
3.612.3.2.2.0150.0.0016	16	1.5	18.3	295.2	585	100/500/1000
3.612.3.2.2.0150.0.0018	18	1.5	19.2	323.3	646	100/500/1000
3.612.3.2.2.0150.0.0020	20	1.5	20.4	352.3	703	100/500/1000
3.612.3.2.2.0150.0.0024	24	1.5	22.6	420.7	836	100/500/1000
3.612.3.2.2.0150.0.0025	25	1.5	22.6	433.6	865	100/500/1000
3.612.3.2.2.0150.0.0027	27	1.5	23.1	461.0	901	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)
3.612.3.2.2.0250.1.0002	2	2.5	10.9	71.4	186	100/500/1000
3.612.3.2.2.0250.0.0003	3	2.5	11.6	98.7	230	100/500/1000
3.612.3.2.2.0250.0.0004	4	2.5	12.7	123.5	279	100/500/1000
3.612.3.2.2.0250.0.0005	5	2.5	13.8	154.2	340	100/500/1000
3.612.3.2.2.0250.0.0006	6	2.5	15.1	181.0	402	100/500/1000
3.612.3.2.2.0250.0.0007	7	2.5	15.1	202.4	418	100/500/1000
3.612.3.2.2.0250.0.0008	8	2.5	16.4	250.0	504	100/500/1000
3.612.3.2.2.0250.0.0009	9	2.5	19.1	284.6	588	100/500/1000
3.612.3.2.2.0250.0.0010	10	2.5	19.1	306.0	604	100/500/1000
3.612.3.2.2.0250.0.0012	12	2.5	19.9	351.1	684	100/500/1000
3.612.3.2.2.0250.0.0014	14	2.5	20.9	396.5	764	100/500/1000
3.612.3.2.2.0250.0.0016	16	2.5	22.1	453.5	863	100/500/1000
3.612.3.2.2.0250.0.0018	18	2.5	23.3	500.4	963	100/500/1000
3.612.3.2.2.0250.0.0020	20	2.5	24.8	548.5	1048	100/500/1000
3.612.3.2.2.0250.0.0024	24	2.5	27.4	644.4	1235	100/500/1000
3.612.3.2.2.0250.0.0025	25	2.5	27.4	665.8	1281	100/500/1000
3.612.3.2.2.0250.0.0027	27	2.5	28.0	710.8	1337	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)
3.612.3.2.2.0400.1.0002	2	4	12.4	104.0	248	100/500/1000
3.612.3.2.2.0400.0.0003	3	4	13.2	148.9	314	100/500/1000
3.612.3.2.2.0400.0.0004	4	4	14.5	188.3	383	100/500/1000
3.612.3.2.2.0400.0.0005	5	4	15.8	225.4	459	100/500/1000
3.612.3.2.2.0400.0.0006	6	4	17.4	286.4	568	100/500/1000
3.612.3.2.2.0400.0.0007	7	4	17.4	320.7	593	100/500/1000
3.612.3.2.2.0400.0.0008	8	4	18.9	365.2	690	100/500/1000
3.612.3.2.2.0400.0.0009	9	4	22.3	419.6	822	100/500/1000
3.612.3.2.2.0400.0.0010	10	4	22.3	453.9	846	100/500/1000
3.612.3.2.2.0400.0.0012	12	4	23.0	525.0	950	100/500/1000
3.612.3.2.2.0400.0.0014	14	4	24.3	598.4	1073	100/500/1000
3.612.3.2.2.0400.0.0016	16	4	25.6	671.7	1193	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)
3.612.3.2.2.0600.1.0002	2	6	14.3	153.7	340	100/500/1000
3.612.3.2.2.0600.0.0003	3	6	15.2	207.1	422	100/500/1000
3.612.3.2.2.0600.0.0004	4	6	16.7	284.9	532	100/500/1000
3.612.3.2.2.0600.0.0005	5	6	18.4	346.9	654	100/500/1000
3.612.3.2.2.0600.0.0006	6	6	20.2	403.2	774	100/500/1000
3.612.3.2.2.0600.0.0007	7	6	20.2	454.6	812	100/500/1000
3.612.3.2.2.0600.0.0008	8	6	22.0	521.6	954	100/500/1000
3.612.3.2.2.0600.0.0009	9	6	25.8	587.0	1105	100/500/1000
3.612.3.2.2.0600.0.0010	10	6	25.8	638.4	1143	100/500/1000
3.612.3.2.2.0600.0.0012	12	6	26.9	745.3	1313	100/500/1000
3.612.3.2.2.0600.0.0014	14	6	28.2	853.1	1472	100/500/1000
3.612.3.2.2.0600.0.0016	16	6	29.7	961.9	1642	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)
3.612.3.2.2.1000.1.0002	2	10	17.0	257.9	505	100/500/1000
3.612.3.2.2.1000.0.0003	3	10	18.3	356.4	650	100/500/1000
3.612.3.2.2.1000.0.0004	4	10	20.1	450.4	794	100/500/1000
3.612.3.2.2.1000.0.0005	5	10	22.2	555.8	982	100/500/1000
3.612.3.2.2.1000.0.0006	6	10	24.4	652.6	1172	100/500/1000
3.612.3.2.2.1000.0.0007	7	10	24.4	741.7	1238	100/500/1000
3.612.3.2.2.1000.0.0008	8	10	26.7	839.0	1450	100/500/1000
3.612.3.2.2.1000.0.0009	9	10	31.3	962.9	1687	100/500/1000
3.612.3.2.2.1000.0.0010	10	10	31.3	1.051.9	1753	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)
3.612.3.2.2.1600.1.0002	2	16	19.9	374.4	703	100/500/1000
3.612.3.2.2.1600.0.0003	3	16	21.2	518.1	895	100/500/1000
3.612.3.2.2.1600.0.0004	4	16	23.4	675.8	1120	100/500/1000
3.612.3.2.2.1600.0.0005	5	16	25.8	825.1	1378	100/500/1000
3.612.3.2.2.1600.0.0006	6	16	28.2	946.4	1594	100/500/1000
3.612.3.2.2.1600.0.0007	7	16	28.3	1.115.1	1744	100/500/1000
3.612.3.2.2.1600.0.0008	8	16	30.8	1.264.6	2017	100/500/1000
3.612.3.2.2.1600.0.0009	9	16	36.2	1.447.1	2329	100/500/1000
3.612.3.2.2.1600.0.0010	10	16	36.2	1.587.3	2452	100/500/1000