



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
- 5 - Inner Jacket: UV resistant PVC inner jacket (EN 50363-4-1, DIN VDE 207 TM2). RAL 7001 (Grey)
- 6 - Screen : Tinned copper braiding
- 7 - 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 $\text{M}\Omega/\text{km}$	Current Carrying Capacity A	Test Voltage V (DC, 1 minute)	Operating Voltage V DC
0.50 mm ²	39.0	20	9	2000	300/500
0.75 mm ²	26.0	20	12	2000	300/500
1.00 mm ²	19.5	20	15	2000	300/500
1.5 mm ²	13.3	20	18	2000	300/500
2.5 mm ²	7.98	20	26	2000	300/500
4.0 mm ²	4.95	20	34	2000	300/500
6.0 mm ²	3.30	20	44	2000	300/500
10.0 mm ²	1.91	20	61	2000	300/500
16.0 mm ²	1.21	20	82	2000	300/500

Mechanical Characteristics

Bending Radius	Temperature Range Operating
10xD 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)
3.605.3.2.2.0050.0.0002	2	0.5	6.7	25.2	72	100/500/1000
3.605.3.2.2.0050.0.0003	3	0.5	7.0	30.2	81	100/500/1000
3.605.3.2.2.0050.0.0004	4	0.5	7.4	36.4	93	100/500/1000
3.605.3.2.2.0050.0.0005	5	0.5	7.9	43.7	108	100/500/1000
3.605.3.2.2.0050.0.0006	6	0.5	8.4	49.9	122	100/500/1000
3.605.3.2.2.0050.0.0007	7	0.5	8.4	54.3	125	100/500/1000
3.605.3.2.2.0050.0.0008	8	0.5	9.2	65.9	148	100/500/1000
3.605.3.2.2.0050.0.0009	9	0.5	10.5	67.8	170	100/500/1000
3.605.3.2.2.0050.0.0010	10	0.5	10.5	72.2	174	100/500/1000
3.605.3.2.2.0050.0.0012	12	0.5	10.9	81.3	192	100/500/1000
3.605.3.2.2.0050.0.0014	14	0.5	11.3	94.1	214	100/500/1000
3.605.3.2.2.0050.0.0016	16	0.5	12.0	105.2	241	100/500/1000
3.605.3.2.2.0050.0.0018	18	0.5	12.6	116.9	285	100/500/1000
3.605.3.2.2.0050.0.0020	20	0.5	13.2	134.0	295	100/500/1000
3.605.3.2.2.0050.0.0024	24	0.5	14.5	156.9	341	100/500/1000
3.605.3.2.2.0050.0.0025	25	0.5	14.5	161.3	354	100/500/1000
3.605.3.2.2.0050.0.0027	27	0.5	14.8	170.6	364	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)
3.605.3.2.2.0075.0.0002	2	0.75	7.1	31.0	82	100/500/1000
3.605.3.2.2.0075.0.0003	3	0.75	7.4	38.6	95	100/500/1000
3.605.3.2.2.0075.0.0004	4	0.75	7.9	48.1	110	100/500/1000
3.605.3.2.2.0075.0.0005	5	0.75	8.4	56.5	128	100/500/1000
3.605.3.2.2.0075.0.0006	6	0.75	9.2	70.5	155	100/500/1000
3.605.3.2.2.0075.0.0007	7	0.75	9.2	77.1	160	100/500/1000
3.605.3.2.2.0075.0.0008	8	0.75	9.9	79.3	173	100/500/1000
3.605.3.2.2.0075.0.0009	9	0.75	11.5	92.1	211	100/500/1000
3.605.3.2.2.0075.0.0010	10	0.75	11.5	98.7	216	100/500/1000
3.605.3.2.2.0075.0.0012	12	0.75	11.9	113.9	242	100/500/1000
3.605.3.2.2.0075.0.0014	14	0.75	12.4	127.8	266	100/500/1000
3.605.3.2.2.0075.0.0016	16	0.75	13.1	148.9	303	100/500/1000
3.605.3.2.2.0075.0.0018	18	0.75	13.7	165.7	356	100/500/1000
3.605.3.2.2.0075.0.0020	20	0.75	14.5	183.1	369	100/500/1000
3.605.3.2.2.0075.0.0024	24	0.75	15.8	212.5	420	100/500/1000
3.605.3.2.2.0075.0.0025	25	0.75	15.8	219.1	438	100/500/1000
3.605.3.2.2.0075.0.0027	27	0.75	16.3	256.7	478	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)
3.605.3.2.2.0100.0.0002	2	1	7.5	35.4	92	100/500/1000
3.605.3.2.2.0100.0.0003	3	1	7.8	46.4	108	100/500/1000
3.605.3.2.2.0100.0.0004	4	1	8.4	56.4	125	100/500/1000
3.605.3.2.2.0100.0.0005	5	1	9.2	72.1	156	100/500/1000
3.605.3.2.2.0100.0.0006	6	1	9.9	76.0	173	100/500/1000
3.605.3.2.2.0100.0.0007	7	1	9.9	84.2	179	100/500/1000
3.605.3.2.2.0100.0.0008	8	1	10.6	94.3	202	100/500/1000
3.605.3.2.2.0100.0.0009	9	1	12.4	109.7	246	100/500/1000
3.605.3.2.2.0100.0.0010	10	1	12.4	117.9	252	100/500/1000
3.605.3.2.2.0100.0.0012	12	1	12.8	137.1	284	100/500/1000

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3.605.3.2.2.0100.0.0014	14	1	13.4	161.8	320	100/500/1000
3.605.3.2.2.0100.0.0016	16	1	14.2	182.6	362	100/500/1000
3.605.3.2.2.0100.0.0018	18	1	14.9	200.7	424	100/500/1000
3.605.3.2.2.0100.0.0020	20	1	15.6	218.7	432	100/500/1000
3.605.3.2.2.0100.0.0024	24	1	17.4	278.7	524	100/500/1000
3.605.3.2.2.0100.0.0025	25	1	17.4	287.0	546	100/500/1000
3.605.3.2.2.0100.0.0027	27	1	17.8	304.1	563	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)
3.605.3.2.2.0150.0.0002	2	1.5	8.1	47.7	111	100/500/1000
3.605.3.2.2.0150.0.0003	3	1.5	8.6	62.2	134	100/500/1000
3.605.3.2.2.0150.0.0004	4	1.5	9.3	80.7	163	100/500/1000
3.605.3.2.2.0150.0.0005	5	1.5	10.1	96.5	194	100/500/1000
3.605.3.2.2.0150.0.0006	6	1.5	11.0	105.7	222	100/500/1000
3.605.3.2.2.0150.0.0007	7	1.5	11.0	118.6	231	100/500/1000
3.605.3.2.2.0150.0.0008	8	1.5	12.0	135.9	266	100/500/1000
3.605.3.2.2.0150.0.0009	9	1.5	13.9	162.8	327	100/500/1000
3.605.3.2.2.0150.0.0010	10	1.5	13.9	175.6	337	100/500/1000
3.605.3.2.2.0150.0.0012	12	1.5	14.3	202.0	374	100/500/1000
3.605.3.2.2.0150.0.0014	14	1.5	15.0	232.3	421	100/500/1000
3.605.3.2.2.0150.0.0016	16	1.5	15.7	259.5	466	100/500/1000
3.605.3.2.2.0150.0.0018	18	1.5	16.5	291.0	525	100/500/1000
3.605.3.2.2.0150.0.0020	20	1.5	17.6	338.2	591	100/500/1000
3.605.3.2.2.0150.0.0024	24	1.5	19.3	400.9	682	100/500/1000
3.605.3.2.2.0150.0.0025	25	1.5	19.3	413.7	713	100/500/1000
3.605.3.2.2.0150.0.0027	27	1.5	19.9	441.1	747	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)
3.605.3.2.2.0250.0.0002	2	2.5	9.6	74.2	161	100/500/1000
3.605.3.2.2.0250.0.0003	3	2.5	10.1	90.9	187	100/500/1000
3.605.3.2.2.0250.0.0004	4	2.5	11.0	114.4	227	100/500/1000
3.605.3.2.2.0250.0.0005	5	2.5	12.1	142.1	279	100/500/1000
3.605.3.2.2.0250.0.0006	6	2.5	13.1	174.5	333	100/500/1000
3.605.3.2.2.0250.0.0007	7	2.5	13.1	195.9	349	100/500/1000
3.605.3.2.2.0250.0.0008	8	2.5	14.3	222.1	398	100/500/1000
3.605.3.2.2.0250.0.0009	9	2.5	16.6	271.9	490	100/500/1000
3.605.3.2.2.0250.0.0010	10	2.5	16.6	293.4	506	100/500/1000
3.605.3.2.2.0250.0.0012	12	2.5	17.1	337.2	565	100/500/1000
3.605.3.2.2.0250.0.0014	14	2.5	18.2	389.0	648	100/500/1000
3.605.3.2.2.0250.0.0016	16	2.5	19.0	434.3	719	100/500/1000
3.605.3.2.2.0250.0.0018	18	2.5	20.2	480.3	851	100/500/1000
3.605.3.2.2.0250.0.0020	20	2.5	21.2	526.1	876	100/500/1000
3.605.3.2.2.0250.0.0024	24	2.5	23.5	629.9	1029	100/500/1000
3.605.3.2.2.0250.0.0025	25	2.5	23.5	651.3	1077	100/500/1000
3.605.3.2.2.0250.0.0027	27	2.5	24.0	695.9	1116	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)
3.605.3.2.2.0400.0.0002	2	4	10.8	97.0	202	100/500/1000
3.605.3.2.2.0400.0.0003	3	4	11.5	135.5	254	100/500/1000
3.605.3.2.2.0400.0.0004	4	4	12.4	172.6	308	100/500/1000
3.605.3.2.2.0400.0.0005	5	4	13.6	218.1	379	100/500/1000
3.605.3.2.2.0400.0.0006	6	4	14.9	257.9	453	100/500/1000
3.605.3.2.2.0400.0.0007	7	4	14.9	292.1	478	100/500/1000
3.605.3.2.2.0400.0.0008	8	4	16.2	347.5	556	100/500/1000
3.605.3.2.2.0400.0.0009	9	4	18.9	399.7	665	100/500/1000
3.605.3.2.2.0400.0.0010	10	4	18.9	434.0	691	100/500/1000
3.605.3.2.2.0400.0.0012	12	4	19.7	504.8	789	100/500/1000
3.605.3.2.2.0400.0.0014	14	4	20.7	585.3	895	100/500/1000
3.605.3.2.2.0400.0.0016	16	4	21.7	647.5	989	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)
3.605.3.2.2.0600.0.0002	2	6	12.7	140.7	283	100/500/1000
3.605.3.2.2.0600.0.0003	3	6	13.4	200.7	358	100/500/1000
3.605.3.2.2.0600.0.0004	4	6	14.7	257.3	441	100/500/1000
3.605.3.2.2.0600.0.0005	5	6	16.3	330.4	554	100/500/1000
3.605.3.2.2.0600.0.0006	6	6	17.7	389.9	655	100/500/1000
3.605.3.2.2.0600.0.0007	7	6	17.7	441.3	693	100/500/1000
3.605.3.2.2.0600.0.0008	8	6	19.2	503.3	786	100/500/1000
3.605.3.2.2.0600.0.0009	9	6	22.7	575.4	952	100/500/1000
3.605.3.2.2.0600.0.0010	10	6	22.7	626.9	990	100/500/1000
3.605.3.2.2.0600.0.0012	12	6	23.4	732.4	1121	100/500/1000
3.605.3.2.2.0600.0.0014	14	6	24.8	840.1	1278	100/500/1000
3.605.3.2.2.0600.0.0016	16	6	26.1	947.9	1431	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)
3.605.3.2.2.1000.0.0002	2	10	15.0	230.3	418	100/500/1000
3.605.3.2.2.1000.0.0003	3	10	15.9	321.2	528	100/500/1000
3.605.3.2.2.1000.0.0004	4	10	17.6	437.0	679	100/500/1000
3.605.3.2.2.1000.0.0005	5	10	19.3	537.0	828	100/500/1000
3.605.3.2.2.1000.0.0006	6	10	21.1	631.2	983	100/500/1000
3.605.3.2.2.1000.0.0007	7	10	21.1	720.2	1049	100/500/1000
3.605.3.2.2.1000.0.0008	8	10	23.1	825.9	1206	100/500/1000
3.605.3.2.2.1000.0.0009	9	10	27.3	930.7	1436	100/500/1000
3.605.3.2.2.1000.0.0010	10	10	27.3	1.019.7	1502	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)
3.605.3.2.2.1600.0.0002	2	16	19.3	372.7	677	100/500/1000
3.605.3.2.2.1600.0.0003	3	16	20.8	516.8	874	100/500/1000
3.605.3.2.2.1600.0.0004	4	16	22.9	673.9	1095	100/500/1000
3.605.3.2.2.1600.0.0005	5	16	25.3	822.9	1345	100/500/1000
3.605.3.2.2.1600.0.0006	6	16	27.7	972.5	1602	100/500/1000
3.605.3.2.2.1600.0.0007	7	16	27.7	1.112.7	1704	100/500/1000
3.605.3.2.2.1600.0.0008	8	16	30.1	1.261.9	1928	100/500/1000
3.605.3.2.2.1600.0.0009	9	16	35.4	1.423.5	2275	100/500/1000
3.605.3.2.2.1600.0.0010	10	16	35.4	1.563.8	2378	100/500/1000