



Application	Cable Construction
<ul style="list-style-type: none"> · 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. · In places where human life, valuable materials and equipments need to be protected. 	<ul style="list-style-type: none"> 1 - Conductor : Stranded electrolytic annealed copper conductor (Class 5) (IEC 60228, EN 60228, DIN VDE 0295) 2 - Insulation : Halogen-free (DIN VDE 0207, EN 50363-3, TS EN 50290-2-26 T12), Black insulation, white number coded (DIN VDE 0293, TS EN 50334) 3 - Stranding : In layers 4 - Wrapping : Polyester tape 5 - Screen : Al/PET tape, tinned copper braiding 6 - Outer Jacket: UV resistant halogen-free outer jacket (TS EN 50290-2-27). 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	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

Smoke Density Test	Corrosive Gas Test	Halogen-free Test	Flame Retardancy Test
IEC 61034-2, VDE 0482-1034-2, EN 61034-2	IEC 60754-2, VDE 0482-267-2-3, EN 50267-2-3	IEC 60754-1, VDE 0482-267-2-1, EN 50267-2-1	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

HSL(S†)CH-JZ

Part Number	Conductor Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.604.3.3.3.0050.0.0002	2	0.5	5.4	16.9	40	100/500/1000
3.604.3.3.3.0050.0.0003	3	0.5	5.7	21.8	49	100/500/1000
3.604.3.3.3.0050.0.0004	4	0.5	6.1	27.2	58	100/500/1000
3.604.3.3.3.0050.0.0005	5	0.5	6.6	32.5	70	100/500/1000
3.604.3.3.3.0050.0.0006	6	0.5	7.2	38.2	83	100/500/1000
3.604.3.3.3.0050.0.0007	7	0.5	7.2	42.6	86	100/500/1000
3.604.3.3.3.0050.0.0008	8	0.5	7.9	48.3	99	100/500/1000
3.604.3.3.3.0050.0.0009	9	0.5	9.2	57.9	121	100/500/1000
3.604.3.3.3.0050.0.0010	10	0.5	9.2	62.3	124	100/500/1000
3.604.3.3.3.0050.0.0012	12	0.5	9.5	72.4	141	100/500/1000
3.604.3.3.3.0050.0.0014	14	0.5	9.9	81.6	157	100/500/1000
3.604.3.3.3.0050.0.0016	16	0.5	10.5	92.3	178	100/500/1000
3.604.3.3.3.0050.0.0018	18	0.5	11.0	101.8	197	100/500/1000
3.604.3.3.3.0050.0.0020	20	0.5	11.6	112.5	221	100/500/1000
3.604.3.3.3.0050.0.0024	24	0.5	12.9	132.9	252	100/500/1000
3.604.3.3.3.0050.0.0025	25	0.5	12.9	137.3	266	100/500/1000
3.604.3.3.3.0050.0.00027	27	0.5	13.1	141.2	269	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)
3.604.3.3.3.0075.0.0002	2	0.75	5.8	22.1	48	100/500/1000
3.604.3.3.3.0075.0.0003	3	0.75	6.1	29.4	59	100/500/1000
3.604.3.3.3.0075.0.0004	4	0.75	6.6	36.9	71	100/500/1000
3.604.3.3.3.0075.0.0005	5	0.75	7.3	44.8	86	100/500/1000
3.604.3.3.3.0075.0.0006	6	0.75	7.9	52.8	100	100/500/1000
3.604.3.3.3.0075.0.0007	7	0.75	7.9	59.4	110	100/500/1000
3.604.3.3.3.0075.0.0008	8	0.75	8.6	69.9	125	100/500/1000
3.604.3.3.3.0075.0.0009	9	0.75	10.1	80.8	149	100/500/1000
3.604.3.3.3.0075.0.0010	10	0.75	10.1	87.4	158	100/500/1000
3.604.3.3.3.0075.0.0012	12	0.75	10.4	101.0	179	100/500/1000
3.604.3.3.3.0075.0.0014	14	0.75	10.9	114.9	200	100/500/1000
3.604.3.3.3.0075.0.0016	16	0.75	11.5	130.0	228	100/500/1000
3.604.3.3.3.0075.0.0018	18	0.75	12.1	144.4	257	100/500/1000
3.604.3.3.3.0075.0.0020	20	0.75	12.8	159.2	283	100/500/1000
3.604.3.3.3.0075.0.0024	24	0.75	14.2	188.4	324	100/500/1000
3.604.3.3.3.0075.0.0025	25	0.75	14.2	195.0	342	100/500/1000
3.604.3.3.3.0075.0.00027	27	0.75	14.5	204.3	353	100/500/1000

HSL(St)CH-JZ

Part Number	Conductor Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.604.3.3.3.0100.0.0002	2	1	6.2	26.3	55	100/500/1000
3.604.3.3.3.0100.0.0003	3	1	6.6	35.2	68	100/500/1000
3.604.3.3.3.0100.0.0004	4	1	7.2	44.8	85	100/500/1000
3.604.3.3.3.0100.0.0005	5	1	7.9	54.4	104	100/500/1000
3.604.3.3.3.0100.0.0006	6	1	8.6	66.6	126	100/500/1000
3.604.3.3.3.0100.0.0007	7	1	8.6	74.9	132	100/500/1000
3.604.3.3.3.0100.0.0008	8	1	9.3	85.4	151	100/500/1000
3.604.3.3.3.0100.0.0009	9	1	10.9	96.7	179	100/500/1000
3.604.3.3.3.0100.0.0010	10	1	10.9	105.0	186	100/500/1000
3.604.3.3.3.0100.0.0012	12	1	11.3	123.3	214	100/500/1000
3.604.3.3.3.0100.0.0014	14	1	11.8	140.0	240	100/500/1000
3.604.3.3.3.0100.0.0016	16	1	12.6	159.0	274	100/500/1000
3.604.3.3.3.0100.0.0018	18	1	13.2	176.0	304	100/500/1000
3.604.3.3.3.0100.0.0020	20	1	14.0	194.8	341	100/500/1000
3.604.3.3.3.0100.0.0024	24	1	15.6	231.5	394	100/500/1000
3.604.3.3.3.0100.0.0025	25	1	15.6	239.7	416	100/500/1000
3.604.3.3.3.0100.0.00027	27	1	15.9	250.5	424	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)
3.604.3.3.3.0150.0.0002	2	1.5	6.9	37.1	70	100/500/1000
3.604.3.3.3.0150.0.0003	3	1.5	7.3	50.1	89	100/500/1000
3.604.3.3.3.0150.0.0004	4	1.5	8.0	64.1	111	100/500/1000
3.604.3.3.3.0150.0.0005	5	1.5	8.8	81.5	138	100/500/1000
3.604.3.3.3.0150.0.0006	6	1.5	9.6	96.8	166	100/500/1000
3.604.3.3.3.0150.0.0007	7	1.5	9.6	109.7	176	100/500/1000
3.604.3.3.3.0150.0.0008	8	1.5	10.4	124.7	201	100/500/1000
3.604.3.3.3.0150.0.0009	9	1.5	12.3	140.3	240	100/500/1000
3.604.3.3.3.0150.0.0010	10	1.5	12.3	153.2	249	100/500/1000
3.604.3.3.3.0150.0.0012	12	1.5	12.7	180.1	285	100/500/1000
3.604.3.3.3.0150.0.0014	14	1.5	13.4	207.5	326	100/500/1000
3.604.3.3.3.0150.0.0016	16	1.5	14.1	235.5	369	100/500/1000
3.604.3.3.3.0150.0.0018	18	1.5	14.9	262.0	413	100/500/1000
3.604.3.3.3.0150.0.0020	20	1.5	15.8	290.8	464	100/500/1000
3.604.3.3.3.0150.0.0024	24	1.5	17.6	350.8	541	100/500/1000
3.604.3.3.3.0150.0.0025	25	1.5	17.6	363.7	571	100/500/1000
3.604.3.3.3.0150.0.00027	27	1.5	18.1	386.5	597	100/500/1000

HSL(St)CH-JZ

Part Number	Conductor Count	Conductor Cross-section (mm ²)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.604.3.3.3.0250.0.0002	2	2.5	8.2	56.3	100	100/500/1000
3.604.3.3.3.0250.0.0003	3	2.5	8.8	82.3	133	100/500/1000
3.604.3.3.3.0250.0.0004	4	2.5	9.6	105.4	167	100/500/1000
3.604.3.3.3.0250.0.0005	5	2.5	10.6	129.2	208	100/500/1000
3.604.3.3.3.0250.0.0006	6	2.5	11.6	153.0	249	100/500/1000
3.604.3.3.3.0250.0.0007	7	2.5	11.6	174.4	265	100/500/1000
3.604.3.3.3.0250.0.0008	8	2.5	12.6	198.5	304	100/500/1000
3.604.3.3.3.0250.0.0009	9	2.5	14.9	225.5	362	100/500/1000
3.604.3.3.3.0250.0.0010	10	2.5	14.9	246.9	378	100/500/1000
3.604.3.3.3.0250.0.0012	12	2.5	15.4	290.4	435	100/500/1000
3.604.3.3.3.0250.0.0014	14	2.5	16.2	337.6	500	100/500/1000
3.604.3.3.3.0250.0.0016	16	2.5	17.3	384.6	576	100/500/1000
3.604.3.3.3.0250.0.0018	18	2.5	18.4	429.0	649	100/500/1000
3.604.3.3.3.0250.0.0020	20	2.5	19.6	473.6	730	100/500/1000
3.604.3.3.3.0250.0.0024	24	2.5	22.0	573.7	862	100/500/1000
3.604.3.3.3.0250.0.0025	25	2.5	22.0	595.1	910	100/500/1000
3.604.3.3.3.0250.0.00027	27	2.5	22.2	630.5	930	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)
3.604.3.3.3.0400.0.0002	2	4	9.4	88.1	139	100/500/1000
3.604.3.3.3.0400.0.0003	3	4	9.9	124.2	183	100/500/1000
3.604.3.3.3.0400.0.0004	4	4	10.9	159.7	231	100/500/1000
3.604.3.3.3.0400.0.0005	5	4	12.0	197.0	289	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)
3.604.3.3.3.0600.0.0002	2	6	11.2	125.6	195	100/500/1000
3.604.3.3.3.0600.0.0003	3	6	11.9	178.8	260	100/500/1000
3.604.3.3.3.0600.0.0004	4	6	13.0	233.1	332	100/500/1000
3.604.3.3.3.0600.0.0005	5	6	14.5	289.2	420	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)
3.604.3.3.3.1000.0.0002	2	10	13.4	207.1	295	100/500/1000
3.604.3.3.3.1000.0.0003	3	10	14.2	297.0	400	100/500/1000
3.604.3.3.3.1000.0.0004	4	10	15.8	389.6	517	100/500/1000
3.604.3.3.3.1000.0.0005	5	10	17.5	487.1	658	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)
3.604.3.3.3.1600.0.0002	2	16	17.6	322.6	477	100/500/1000
3.604.3.3.3.1600.0.0003	3	16	19.2	464.8	668	100/500/1000
3.604.3.3.3.1600.0.0004	4	16	21.2	618.8	869	100/500/1000
3.604.3.3.3.1600.0.0005	5	16	23.7	769.4	1111	100/500/1000