



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.
- In places where human life, valuable materials and equipments need to be protected.

Cable Construction

- 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 - 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	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

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

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

NHSLH-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)
3.610.3.3.3.0050.0.0002	2	0.5	6.2	8.8	47	100/500/1000
3.610.3.3.3.0050.0.0003	3	0.5	6.6	13.2	57	100/500/1000
3.610.3.3.3.0050.0.0004	4	0.5	7.3	17.6	70	100/500/1000
3.610.3.3.3.0050.0.0005	5	0.5	8.1	22.0	85	100/500/1000
3.610.3.3.3.0050.0.0006	6	0.5	8.7	26.4	101	100/500/1000
3.610.3.3.3.0050.0.0007	7	0.5	8.7	30.8	104	100/500/1000
3.610.3.3.3.0050.0.0008	8	0.5	9.6	35.2	124	100/500/1000
3.610.3.3.3.0050.0.0009	9	0.5	11.3	39.6	146	100/500/1000
3.610.3.3.3.0050.0.0010	10	0.5	11.3	44.0	150	100/500/1000
3.610.3.3.3.0050.0.0012	12	0.5	11.7	52.8	169	100/500/1000
3.610.3.3.3.0050.0.0014	14	0.5	12.4	61.6	192	100/500/1000
3.610.3.3.3.0050.0.0016	16	0.5	13.1	70.4	214	100/500/1000
3.610.3.3.3.0050.0.0018	18	0.5	13.8	79.2	243	100/500/1000
3.610.3.3.3.0050.0.0020	20	0.5	14.7	88.0	264	100/500/1000
3.610.3.3.3.0050.0.0024	24	0.5	16.3	105.6	312	100/500/1000
3.610.3.3.3.0050.0.0025	25	0.5	16.3	110.0	331	100/500/1000
3.610.3.3.3.0050.0.0027	27	0.5	16.9	118.8	348	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)
3.610.3.3.3.0075.0.0002	2	0.75	6.5	13.2	54	100/500/1000
3.610.3.3.3.0075.0.0003	3	0.75	7.0	19.8	68	100/500/1000
3.610.3.3.3.0075.0.0004	4	0.75	7.7	26.4	82	100/500/1000
3.610.3.3.3.0075.0.0005	5	0.75	8.5	33.0	105	100/500/1000
3.610.3.3.3.0075.0.0006	6	0.75	9.3	39.6	121	100/500/1000
3.610.3.3.3.0075.0.0007	7	0.75	9.3	46.2	127	100/500/1000
3.610.3.3.3.0075.0.0008	8	0.75	10.2	52.8	150	100/500/1000
3.610.3.3.3.0075.0.0009	9	0.75	11.9	59.4	173	100/500/1000
3.610.3.3.3.0075.0.0010	10	0.75	11.9	66.0	178	100/500/1000
3.610.3.3.3.0075.0.0012	12	0.75	12.4	79.2	205	100/500/1000
3.610.3.3.3.0075.0.0014	14	0.75	13.1	92.4	231	100/500/1000
3.610.3.3.3.0075.0.0016	16	0.75	13.9	105.6	260	100/500/1000
3.610.3.3.3.0075.0.0018	18	0.75	14.7	118.8	296	100/500/1000
3.610.3.3.3.0075.0.0020	20	0.75	15.6	132.0	321	100/500/1000
3.610.3.3.3.0075.0.0024	24	0.75	17.4	158.5	385	100/500/1000
3.610.3.3.3.0075.0.0025	25	0.75	17.4	165.1	407	100/500/1000
3.610.3.3.3.0075.0.0027	27	0.75	18.0	178.3	429	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)
3.610.3.3.3.0100.0.0002	2	1	7.0	16.5	63	100/500/1000
3.610.3.3.3.0100.0.0003	3	1	7.5	24.8	79	100/500/1000
3.610.3.3.3.0100.0.0004	4	1	8.2	33.0	97	100/500/1000
3.610.3.3.3.0100.0.0005	5	1	9.1	41.3	123	100/500/1000
3.610.3.3.3.0100.0.0006	6	1	9.9	49.5	140	100/500/1000
3.610.3.3.3.0100.0.0007	7	1	9.9	57.8	147	100/500/1000
3.610.3.3.3.0100.0.0008	8	1	10.8	66.0	175	100/500/1000
3.610.3.3.3.0100.0.0009	9	1	12.8	74.3	203	100/500/1000
3.610.3.3.3.0100.0.0010	10	1	12.8	82.5	210	100/500/1000

NHSLH-JZ

3.610.3.3.3.0100.0.0012	12	1	13.4	99.0	242	100/500/1000
3.610.3.3.3.0100.0.0014	14	1	14.0	115.5	273	100/500/1000
3.610.3.3.3.0100.0.0016	16	1	14.9	132.0	308	100/500/1000
3.610.3.3.3.0100.0.0018	18	1	15.8	148.5	350	100/500/1000
3.610.3.3.3.0100.0.0020	20	1	16.9	165.1	383	100/500/1000
3.610.3.3.3.0100.0.0024	24	1	18.8	198.1	458	100/500/1000
3.610.3.3.3.0100.0.0025	25	1	18.8	206.3	485	100/500/1000
3.610.3.3.3.0100.0.0027	27	1	19.4	222.8	510	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)
3.610.3.3.3.0150.0.0002	2	1.5	7.4	25.7	76	100/500/1000
3.610.3.3.3.0150.0.0003	3	1.5	8.0	38.6	98	100/500/1000
3.610.3.3.3.0150.0.0004	4	1.5	8.7	51.4	119	100/500/1000
3.610.3.3.3.0150.0.0005	5	1.5	9.6	64.3	151	100/500/1000
3.610.3.3.3.0150.0.0006	6	1.5	10.6	77.2	176	100/500/1000
3.610.3.3.3.0150.0.0007	7	1.5	10.6	90.0	186	100/500/1000
3.610.3.3.3.0150.0.0008	8	1.5	11.6	102.9	220	100/500/1000
3.610.3.3.3.0150.0.0009	9	1.5	13.7	115.7	255	100/500/1000
3.610.3.3.3.0150.0.0010	10	1.5	13.7	128.6	266	100/500/1000
3.610.3.3.3.0150.0.0012	12	1.5	14.2	154.3	304	100/500/1000
3.610.3.3.3.0150.0.0014	14	1.5	15.0	180.0	348	100/500/1000
3.610.3.3.3.0150.0.0016	16	1.5	15.9	205.7	393	100/500/1000
3.610.3.3.3.0150.0.0018	18	1.5	17.0	231.5	451	100/500/1000
3.610.3.3.3.0150.0.0020	20	1.5	18.1	257.2	494	100/500/1000
3.610.3.3.3.0150.0.0024	24	1.5	20.4	308.6	600	100/500/1000
3.610.3.3.3.0150.0.0025	25	1.5	20.4	321.5	633	100/500/1000
3.610.3.3.3.0150.0.0027	27	1.5	20.9	347.2	669	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)
3.610.3.3.3.0250.0.0002	2	2.5	9.0	42.9	114	100/500/1000
3.610.3.3.3.0250.0.0003	3	2.5	9.6	64.3	146	100/500/1000
3.610.3.3.3.0250.0.0004	4	2.5	10.6	85.7	182	100/500/1000
3.610.3.3.3.0250.0.0005	5	2.5	11.7	107.2	232	100/500/1000
3.610.3.3.3.0250.0.0006	6	2.5	12.9	128.6	270	100/500/1000
3.610.3.3.3.0250.0.0007	7	2.5	12.9	150.0	287	100/500/1000
3.610.3.3.3.0250.0.0008	8	2.5	14.1	171.5	338	100/500/1000
3.610.3.3.3.0250.0.0009	9	2.5	16.9	192.9	398	100/500/1000
3.610.3.3.3.0250.0.0010	10	2.5	16.9	214.3	415	100/500/1000
3.610.3.3.3.0250.0.0012	12	2.5	17.5	257.2	477	100/500/1000
3.610.3.3.3.0250.0.0014	14	2.5	18.6	300.0	550	100/500/1000
3.610.3.3.3.0250.0.0016	16	2.5	19.8	342.9	625	100/500/1000
3.610.3.3.3.0250.0.0018	18	2.5	21.1	385.8	714	100/500/1000
3.610.3.3.3.0250.0.0020	20	2.5	22.5	428.6	781	100/500/1000
3.610.3.3.3.0250.0.0024	24	2.5	25.4	514.4	954	100/500/1000
3.610.3.3.3.0250.0.0025	25	2.5	25.4	535.8	1009	100/500/1000
3.610.3.3.3.0250.0.0027	27	2.5	26.0	578.7	1047	100/500/1000

NHSLH-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)
3.610.3.3.3.0400.0.0002	2	4	10.4	68.6	159	100/500/1000
3.610.3.3.3.0400.0.0003	3	4	11.2	102.9	209	100/500/1000
3.610.3.3.3.0400.0.0004	4	4	12.4	137.2	262	100/500/1000
3.610.3.3.3.0400.0.0005	5	4	13.7	171.5	334	100/500/1000
3.610.3.3.3.0400.0.0006	6	4	15.0	205.7	389	100/500/1000
3.610.3.3.3.0400.0.0007	7	4	15.0	240.0	416	100/500/1000
3.610.3.3.3.0400.0.0008	8	4	16.5	274.3	489	100/500/1000
3.610.3.3.3.0400.0.0009	9	4	19.9	308.6	580	100/500/1000
3.610.3.3.3.0400.0.0010	10	4	19.9	342.9	607	100/500/1000
3.610.3.3.3.0400.0.0012	12	4	20.8	411.5	711	100/500/1000
3.610.3.3.3.0400.0.0014	14	4	22.1	480.1	818	100/500/1000
3.610.3.3.3.0400.0.0016	16	4	23.5	548.7	928	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)
3.610.3.3.3.0600.0.0002	2	6	12.2	102.9	223	100/500/1000
3.610.3.3.3.0600.0.0003	3	6	13.0	154.3	293	100/500/1000
3.610.3.3.3.0600.0.0004	4	6	14.5	205.7	356	100/500/1000
3.610.3.3.3.0600.0.0005	5	6	16.0	257.2	473	100/500/1000
3.610.3.3.3.0600.0.0006	6	6	17.9	308.6	565	100/500/1000
3.610.3.3.3.0600.0.0007	7	6	17.9	360.1	605	100/500/1000
3.610.3.3.3.0600.0.0008	8	6	19.7	411.5	715	100/500/1000
3.610.3.3.3.0600.0.0009	9	6	23.9	462.9	836	100/500/1000
3.610.3.3.3.0600.0.0010	10	6	23.9	514.4	892	100/500/1000
3.610.3.3.3.0600.0.0012	12	6	24.7	617.2	1030	100/500/1000
3.610.3.3.3.0600.0.0014	14	6	26.4	720.1	1196	100/500/1000
3.610.3.3.3.0600.0.0016	16	6	28.0	823.0	1355	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)
3.610.3.3.3.1000.0.0002	2	10	14.8	178.0	345	100/500/1000
3.610.3.3.3.1000.0.0003	3	10	15.9	267.0	463	100/500/1000
3.610.3.3.3.1000.0.0004	4	10	17.7	356.0	588	100/500/1000
3.610.3.3.3.1000.0.0005	5	10	19.9	445.0	742	100/500/1000
3.610.3.3.3.1000.0.0006	6	10	22.1	534.0	885	100/500/1000
3.610.3.3.3.1000.0.0007	7	10	22.1	623.0	977	100/500/1000
3.610.3.3.3.1000.0.0008	8	10	24.5	712.0	1140	100/500/1000
3.610.3.3.3.1000.0.0009	9	10	29.3	801.0	1330	100/500/1000
3.610.3.3.3.1000.0.0010	10	10	29.3	890.0	1422	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)
3.610.3.3.3.1600.0.0002	2	16	17.5	280.4	503	100/500/1000
3.610.3.3.3.1600.0.0003	3	16	18.9	420.6	683	100/500/1000
3.610.3.3.3.1600.0.0004	4	16	21.2	560.9	879	100/500/1000
3.610.3.3.3.1600.0.0005	5	16	23.7	701.1	1098	100/500/1000
3.610.3.3.3.1600.0.0006	6	16	26.5	841.3	1319	100/500/1000
3.610.3.3.3.1600.0.0007	7	16	26.5	981.5	1466	100/500/1000
3.610.3.3.3.1600.0.0008	8	16	29.0	1,121.9	1683	100/500/1000
3.610.3.3.3.1600.0.0009	9	16	34.1	1,261.9	1905	100/500/1000
3.610.3.3.3.1600.0.0010	10	16	34.1	1,402.1	2053	100/500/1000