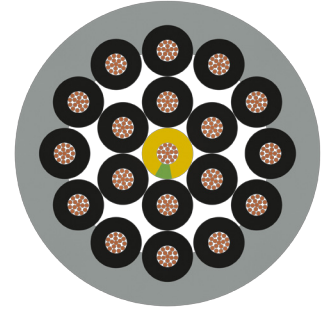


# Control Cables

## NYSLY-JZ



### 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.

### 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 - Outer Jacket: UV resistant PVC outer jacket (EN 50363-4-1, DIN VDE 207 TM2). RAL 7001 (Grey)

### Technical Characteristics

Cross Section	Conductor Resistance $\Omega/\text{km}$ (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 <sup>2</sup>	39.0	20	9	2500	450/750
0.75 mm <sup>2</sup>	26.0	20	12	2500	450/750
1.00 mm <sup>2</sup>	19.5	20	15	2500	450/750
1.5 mm <sup>2</sup>	13.3	20	18	2500	450/750
2.5 mm <sup>2</sup>	7.98	20	26	2500	450/750
4.0 mm <sup>2</sup>	4.95	20	34	2500	450/750
6.0 mm <sup>2</sup>	3.30	20	44	2500	450/750
10.0 mm <sup>2</sup>	1.91	20	61	2500	450/750
16.0 mm <sup>2</sup>	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

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 <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.610.2.2.2.0050.1.0002	2	0.5	6.2	8.8	50	100/500/1000
3.610.3.2.2.0050.0.0003	3	0.5	6.6	13.2	61	100/500/1000
3.610.3.2.2.0050.0.0004	4	0.5	7.3	17.6	75	100/500/1000
3.610.3.2.2.0050.0.0005	5	0.5	8.1	22.0	92	100/500/1000
3.610.3.2.2.0050.0.0006	6	0.5	8.7	26.4	110	100/500/1000
3.610.3.2.2.0050.0.0007	7	0.5	8.7	30.8	113	100/500/1000
3.610.3.2.2.0050.0.0008	8	0.5	9.6	35.2	135	100/500/1000
3.610.3.2.2.0050.0.0009	9	0.5	11.3	39.6	158	100/500/1000
3.610.3.2.2.0050.0.0010	10	0.5	11.3	44.0	162	100/500/1000
3.610.3.2.2.0050.0.0012	12	0.5	11.7	52.8	183	100/500/1000
3.610.3.2.2.0050.0.0014	14	0.5	12.4	61.6	209	100/500/1000
3.610.3.2.2.0050.0.0016	16	0.5	13.1	70.4	232	100/500/1000
3.610.3.2.2.0050.0.0018	18	0.5	13.8	79.2	265	100/500/1000
3.610.3.2.2.0050.0.0020	20	0.5	14.7	88.0	286	100/500/1000
3.610.3.2.2.0050.0.0024	24	0.5	16.3	105.6	339	100/500/1000
3.610.3.2.2.0050.0.0025	25	0.5	16.3	110.0	361	100/500/1000
3.610.3.2.2.0050.0.0027	27	0.5	16.9	118.8	378	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.610.2.2.2.0075.1.0002	2	0.75	6.5	13.2	57	100/500/1000
3.610.3.2.2.0075.0.0003	3	0.75	7.0	19.8	73	100/500/1000
3.610.3.2.2.0075.0.0004	4	0.75	7.7	26.4	88	100/500/1000
3.610.3.2.2.0075.0.0005	5	0.75	8.5	33.0	113	100/500/1000
3.610.3.2.2.0075.0.0006	6	0.75	9.3	39.6	131	100/500/1000
3.610.3.2.2.0075.0.0007	7	0.75	9.3	46.2	136	100/500/1000
3.610.3.2.2.0075.0.0008	8	0.75	10.2	52.8	161	100/500/1000
3.610.3.2.2.0075.0.0009	9	0.75	11.9	59.4	186	100/500/1000
3.610.3.2.2.0075.0.0010	10	0.75	11.9	66.0	191	100/500/1000
3.610.3.2.2.0075.0.0012	12	0.75	12.4	79.2	220	100/500/1000
3.610.3.2.2.0075.0.0014	14	0.75	13.1	92.4	248	100/500/1000
3.610.3.2.2.0075.0.0016	16	0.75	13.9	105.6	280	100/500/1000
3.610.3.2.2.0075.0.0018	18	0.75	14.7	118.8	320	100/500/1000
3.610.3.2.2.0075.0.0020	20	0.75	15.6	132.0	346	100/500/1000
3.610.3.2.2.0075.0.0024	24	0.75	17.4	158.5	414	100/500/1000
3.610.3.2.2.0075.0.0025	25	0.75	17.4	165.1	441	100/500/1000
3.610.3.2.2.0075.0.0027	27	0.75	18.0	178.3	462	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.610.2.2.2.0100.1.0002	2	1	7.0	16.5	67	100/500/1000
3.610.3.2.2.0100.0.0003	3	1	7.5	24.8	83	100/500/1000
3.610.3.2.2.0100.0.0004	4	1	8.2	33.0	103	100/500/1000
3.610.3.2.2.0100.0.0005	5	1	9.1	41.3	132	100/500/1000
3.610.3.2.2.0100.0.0006	6	1	9.9	49.5	151	100/500/1000
3.610.3.2.2.0100.0.0007	7	1	9.9	57.8	157	100/500/1000
3.610.3.2.2.0100.0.0008	8	1	10.8	66.0	187	100/500/1000
3.610.3.2.2.0100.0.0009	9	1	12.8	74.3	218	100/500/1000
3.610.3.2.2.0100.0.0010	10	1	12.8	82.5	224	100/500/1000

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3.610.3.2.2.0100.0.0012	12	1	13.4	990	259	100/500/1000
3.610.3.2.2.0100.0.0014	14	1	14.0	115.5	292	100/500/1000
3.610.3.2.2.0100.0.0016	16	1	14.9	132.0	330	100/500/1000
3.610.3.2.2.0100.0.0018	18	1	15.8	148.5	377	100/500/1000
3.610.3.2.2.0100.0.0020	20	1	16.9	165.1	411	100/500/1000
3.610.3.2.2.0100.0.0024	24	1	18.8	198.1	492	100/500/1000
3.610.3.2.2.0100.0.0025	25	1	18.8	206.3	523	100/500/1000
3.610.3.2.2.0100.0.0027	27	1	19.4	222.8	548	100/500/1000

Part Number	Conductor Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.610.2.2.2.0150.1.0002	2	1.5	7.4	25.7	80	100/500/1000
3.610.3.2.2.0150.0.0003	3	1.5	8.0	38.6	103	100/500/1000
3.610.3.2.2.0150.0.0004	4	1.5	8.7	51.4	126	100/500/1000
3.610.3.2.2.0150.0.0005	5	1.5	9.6	64.3	161	100/500/1000
3.610.3.2.2.0150.0.0006	6	1.5	10.6	77.2	188	100/500/1000
3.610.3.2.2.0150.0.0007	7	1.5	10.6	90.0	197	100/500/1000
3.610.3.2.2.0150.0.0008	8	1.5	11.6	102.9	234	100/500/1000
3.610.3.2.2.0150.0.0009	9	1.5	13.7	115.7	271	100/500/1000
3.610.3.2.2.0150.0.0010	10	1.5	13.7	128.6	281	100/500/1000
3.610.3.2.2.0150.0.0012	12	1.5	14.2	154.3	322	100/500/1000
3.610.3.2.2.0150.0.0014	14	1.5	15.0	180.0	369	100/500/1000
3.610.3.2.2.0150.0.0016	16	1.5	15.9	205.7	417	100/500/1000
3.610.3.2.2.0150.0.0018	18	1.5	17.0	231.5	479	100/500/1000
3.610.3.2.2.0150.0.0020	20	1.5	18.1	257.2	524	100/500/1000
3.610.3.2.2.0150.0.0024	24	1.5	20.4	308.6	635	100/500/1000
3.610.3.2.2.0150.0.0025	25	1.5	20.4	321.5	674	100/500/1000
3.610.3.2.2.0150.0.0027	27	1.5	20.9	347.2	697	100/500/1000

Part Number	Conductor Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.610.2.2.2.0250.1.0002	2	2.5	9.0	42.9	120	100/500/1000
3.610.3.2.2.0250.0.0003	3	2.5	9.6	64.3	154	100/500/1000
3.610.3.2.2.0250.0.0004	4	2.5	10.6	85.7	192	100/500/1000
3.610.3.2.2.0250.0.0005	5	2.5	11.7	107.2	247	100/500/1000
3.610.3.2.2.0250.0.0006	6	2.5	12.9	128.6	287	100/500/1000
3.610.3.2.2.0250.0.0007	7	2.5	12.9	150.0	303	100/500/1000
3.610.3.2.2.0250.0.0008	8	2.5	14.1	171.5	359	100/500/1000
3.610.3.2.2.0250.0.0009	9	2.5	16.9	192.9	422	100/500/1000
3.610.3.2.2.0250.0.0010	10	2.5	16.9	214.3	438	100/500/1000
3.610.3.2.2.0250.0.0012	12	2.5	17.5	257.2	504	100/500/1000
3.610.3.2.2.0250.0.0014	14	2.5	18.6	300.0	581	100/500/1000
3.610.3.2.2.0250.0.0016	16	2.5	19.8	342.9	661	100/500/1000
3.610.3.2.2.0250.0.0018	18	2.5	21.1	385.8	757	100/500/1000
3.610.3.2.2.0250.0.0020	20	2.5	22.5	428.6	825	100/500/1000
3.610.3.2.2.0250.0.0024	24	2.5	25.4	514.4	1008	100/500/1000
3.610.3.2.2.0250.0.0025	25	2.5	25.4	535.8	1070	100/500/1000
3.610.3.2.2.0250.0.0027	27	2.5	26.0	578.7	1107	100/500/1000

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Part Number	Conductor Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.610.3.2.2.0400.1.0002	2	4	10.4	68.6	166	100/500/1000
3.610.3.2.2.0400.0.0003	3	4	11.2	102.9	219	100/500/1000
3.610.3.2.2.0400.0.0004	4	4	12.4	137.2	275	100/500/1000
3.610.3.2.2.0400.0.0005	5	4	13.7	171.5	353	100/500/1000
3.610.3.2.2.0400.0.0006	6	4	15.0	205.7	412	100/500/1000
3.610.3.2.2.0400.0.0007	7	4	15.0	240.0	437	100/500/1000
3.610.3.2.2.0400.0.0008	8	4	16.5	274.3	517	100/500/1000
3.610.3.2.2.0400.0.0009	9	4	19.9	308.6	612	100/500/1000
3.610.3.2.2.0400.0.0010	10	4	19.9	342.9	637	100/500/1000
3.610.3.2.2.0400.0.0012	12	4	20.8	411.5	746	100/500/1000
3.610.3.2.2.0400.0.0014	14	4	22.1	480.1	859	100/500/1000
3.610.3.2.2.0400.0.0016	16	4	23.5	548.7	975	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.610.3.2.2.0600.1.0002	2	6	12.2	102.9	233	100/500/1000
3.610.3.2.2.0600.0.0003	3	6	13.0	154.3	306	100/500/1000
3.610.3.2.2.0600.0.0004	4	6	14.5	205.7	389	100/500/1000
3.610.3.2.2.0600.0.0005	5	6	16.0	257.2	500	100/500/1000
3.610.3.2.2.0600.0.0006	6	6	17.9	308.6	596	100/500/1000
3.610.3.2.2.0600.0.0007	7	6	17.9	360.1	634	100/500/1000
3.610.3.2.2.0600.0.0008	8	6	19.7	411.5	753	100/500/1000
3.610.3.2.2.0600.0.0009	9	6	23.9	462.9	896	100/500/1000
3.610.3.2.2.0600.0.0010	10	6	23.9	514.4	934	100/500/1000
3.610.3.2.2.0600.0.0012	12	6	24.7	617.2	1078	100/500/1000
3.610.3.2.2.0600.0.0014	14	6	26.4	720.1	1253	100/500/1000
3.610.3.2.2.0600.0.0016	16	6	28.0	823.0	1419	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.610.3.2.2.1000.1.0002	2	10	14.8	178.0	359	100/500/1000
3.610.3.2.2.1000.0.0003	3	10	15.9	267.0	481	100/500/1000
3.610.3.2.2.1000.0.0004	4	10	17.7	356.0	612	100/500/1000
3.610.3.2.2.1000.0.0005	5	10	19.9	445.0	776	100/500/1000
3.610.3.2.2.1000.0.0006	6	10	22.1	534.0	925	100/500/1000
3.610.3.2.2.1000.0.0007	7	10	22.1	623.0	1017	100/500/1000
3.610.3.2.2.1000.0.0008	8	10	24.5	712.0	1190	100/500/1000
3.610.3.2.2.1000.0.0009	9	10	29.3	801.0	1389	100/500/1000
3.610.3.2.2.1000.0.0010	10	10	29.3	890.0	1481	100/500/1000
Part Number	Conductor Count	Conductor Cross-section (mm <sup>2</sup> )	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.610.3.2.2.1600.1.0002	2	16	17.5	280.4	523	100/500/1000
3.610.3.2.2.1600.0.0003	3	16	18.9	420.6	710	100/500/1000
3.610.3.2.2.1600.0.0004	4	16	21.2	560.9	914	100/500/1000
3.610.3.2.2.1600.0.0005	5	16	23.7	701.1	1157	100/500/1000
3.610.3.2.2.1600.0.0006	6	16	26.5	841.3	1374	100/500/1000
3.610.3.2.2.1600.0.0007	7	16	26.5	981.5	1523	100/500/1000
3.610.3.2.2.1600.0.0008	8	16	29.0	1.121.7	1752	100/500/1000
3.610.3.2.2.1600.0.0009	9	16	34.1	1.261.9	1981	100/500/1000
3.610.3.2.2.1600.0.0010	10	16	34.1	1.402.1	2130	100/500/1000