

## LSZH YY 500



### Technical data

- Halogen-free flexible control cable
- **Temperature range**  
flexing -15 °C to + 70 °C  
fixed installation -40 °C to + 70 °C
- **Nominal voltage** 300/500 V
- **Test voltage** 2000 V
- **Minimum bending radius**  
flexing approx. 12.5 x cable diameter  
fixed installation approx. 4 x cable diameter

### Cable structure

- Bare copper, fine wire conductors
- Core insulation of halogen-free compound
- Black cores with white continuous numbering to DIN VDE 0293
- Green-yellow earth core in the outer layer (3 cores and above)
- Halogen-free sheath compound
- Outer jacket color grey
- LSZH = Low Smoke Zero Halogen-free.

### Properties

- Flame test to IEC 60332-1

### Application

These cables are designed for flexible uses and free movements under medium mechanical stress. The low smoke, zero halogen and flame retardant features make the cables suitable to be used where fire, smoke emission and toxic fumes create a potential threat to life and equipment.

#### G = Green-yellow earth core

AWG-no.	NO. Cores x Cross-sec. mm <sup>2</sup>	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km	AWG-no.	NO. Cores x Cross-sec. mm <sup>2</sup>	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
20	2 x 0.5	4.8	9.6	43.0	20	18 G 0.5	10.7	86.0	204.0
20	3 G 0.5	5.1	14.4	50.0	20	20 G 0.5	11.2	96.0	227.0
20	3 x 0.5	5.1	14.4	50.0	20	25 G 0.5	12.7	120.0	283.0
20	4 G 0.5	5.7	19.0	60.0	20	30 G 0.5	13.5	144.0	324.0
20	4 x 0.5	5.7	19.0	60.0	20	34 G 0.5	14.5	163.0	367.0
20	5 G 0.5	6.2	24.0	71.0	20	37 G 0.5	15.0	178.0	381.0
20	5 x 0.5	6.2	24.0	71.0	20	41 G 0.5	15.8	197.0	417.0
20	7 G 0.5	7.4	33.6	84.0	20	42 G 0.5	15.8	202.0	454.0
20	8 G 0.5	8.0	38.0	101.0	20	50 G 0.5	17.3	240.0	519.0
20	10 G 0.5	8.8	48.0	121.0	20	61 G 0.5	19.4	293.0	635.0
20	12 G 0.5	9.1	58.0	142.0	20	65 G 0.5	19.4	312.0	649.0
20	16 G 0.5	10.0	76.0	183.0					

## LSZH CY 500



### Technical data

- Halogen-free core flexible control cable adapted to DIN VDE 0281 part 14 and DIN VDE 0281 part 13
- **Temperature range**  
flexing -15 °C to + 70 °C  
fixed installation -40 °C to + 70 °C
- **Nominal voltage** 300/500 V
- **Test voltage** 2000 V
- **Minimum bending radius**  
flexing approx. 12.5 x cable diameter  
fixed installation approx. 4 x cable diameter

### Cable structure

- Bare copper, fine wire conductors
- Core insulation of halogen-free compound
- Black cores with white continuous numbering to DIN VDE 0293
- Green-yellow earth core in the outer layer (3 cores and above)
- Cores laid up in layers with optimal lay-length
- Separating layer
- Screen braid of tinned copper wires, coverage approx. 85%
- Jacket color grey
- LSZH = Low Smoke Zero Halogen-free.

### Application

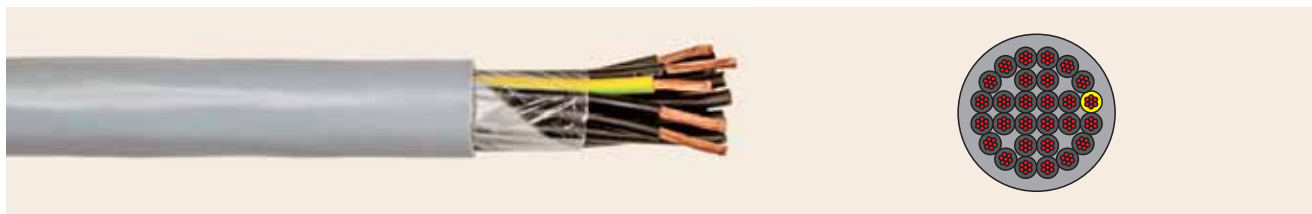
These cables are designed for data and control signaling in electronics, machines, computer systems, etc. The dense screening offers a strong protection against interference to ensure accurate transmission of signals. The low smoke, zero halogen and flame retardant features make the cables suitable to be used where fire, smoke emission and toxic fumes create a potential threat to life and equipment.

#### G = Green-yellow earth core

AWG-no.	NO. Cores x Cross-sec. mm <sup>2</sup>	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
20	2 x 0.5	5.7	35.0	46.0
20	3 G 0.5	6.0	42.0	56.0
20	3 x 0.5	6.0	42.0	56.0
20	4 G 0.5	6.5	47.0	62.0
20	4 x 0.5	6.5	47.0	62.0
20	5 G 0.5	7.0	56.0	75.0
20	7 G 0.5	7.9	69.0	98.0
20	12 G 0.5	9.6	408.0	158.0
20	18 G 0.5	11.2	145.0	216.0
20	25 G 0.5	13.4	240.0	315.0

AWG-no.	NO. Cores x Cross-sec. mm <sup>2</sup>	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
18	2 x 0.75	6.1	40.0	60.0
18	3 G 0.75	6.4	52.0	68.0
18	3 x 0.75	6.4	52.0	68.0
18	4 G 0.75	6.9	60.0	78.0
18	4 x 0.75	6.9	60.0	78.0
18	5 G 0.75	7.4	71.0	95.0

## LSZH YY 1000



### Technical data

- Flexible control cable
- **Temperature range**  
flexing -15 °C to + 70°C  
fixed -40 °C to + 70 °C
- **Nominal voltage** 0.6/1 kV
- **Test voltage** 4000 V
- **Minimum bending radius**  
for permanent bending  
approx. 15 x cable diameter

### Cable structure

- Bare copper, fine wire conductor
- Polymer core insulation
- Black cores with continuous white numbering according to DIN VDE 0293
- Green-yellow earth core in the outer layer (3 cores and above)
- Cores stranded in layers with optimal lay-length
- Sheath color black
- LSZH = Low Smoke Zero Halogen-free.

### Application

These cables are designed for flexible uses and free movements under medium mechanical stress. The low smoke, zero halogen and flame retardant features make the cables suitable to be used where fire, smoke emission and toxic fumes create a potential threat to life and equipment.

### G = Green-yellow earth core

AWG-no.	NO. Cores x Cross-sec. mm <sup>2</sup>	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km	AWG-no.	NO. Cores x Cross-sec. mm <sup>2</sup>	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
20	2 x 0.5	6.4	9.6	57.0	18	2 x 0.75	6.8	14.4	68.0
20	3 G 0.5	6.8	14.4	69.0	18	3 G 0.75	7.2	21.6	77.0
20	3 x 0.5	6.8	14.4	69.0	18	3 x 0.75	7.2	21.6	77.0
20	4 G 0.5	7.6	19.0	104.0	18	4 G 0.75	8.0	29.0	136.0
20	4 x 0.5	7.6	19.0	104.0	18	4 x 0.75	8.0	29.0	136.0
20	5 G 0.5	8.2	24.0	121.0	18	5 G 0.75	8.8	36.0	152.0
20	5 x 0.5	8.2	24.0	121.0	18	5 x 0.75	8.8	36.0	152.0
20	7 G 0.5	9.8	33.6	145.0	18	7 G 0.75	10.7	50.0	208.0
20	10 G 0.5	11.6	48.0	186.0	18	10 G 0.75	12.7	72.0	250.0
20	12 G 0.5	12.2	58.0	224.0	18	12 G 0.75	13.1	86.0	271.0
20	18 G 0.5	14.4	86.0	292.0	18	18 G 0.75	15.6	130.0	387.0
20	25 G 0.5	17.2	120.0	357.0	18	25 G 0.75	18.9	180.0	498.0

## LSZH CY 1000



### Technical data

- Flexible control cable, core construction adapted to E DIN VDE 0281 Part 14 and DIN VDE 0281 Part 13
- **Temperature range**  
flexing -5 °C to + 70 °C  
fixed -40 °C to + 70 °C
- **Nominal voltage** 0.6/1 kV
- **Test voltage** 4000 V
- **Minimum bending radius**  
for permanent bending  
approx. 15 x cable diameter

### Cable structure

- Bare copper, fine wire conductor
- Polymer core insulation
- Black cores with continuous white numbering according to DIN VDE 0293
- Green-yellow earth core in the outer layer (3 cores and above)
- Cores stranded in layers with optimal lay-length
- Inner sheath
- Tinned copper braided screening, coverage approx. 85%
- Free-free polymer sheath
- LSZH = Low Smoke Zero Halogen-free.

## Application

These cables are designed for data and control signaling in electronics, machines, computer systems, etc. The dense screening offers a strong protection against interference to ensure accurate transmission of signals. The low smoke, zero halogen and flame retardant features make the cables suitable to be used where fire, smoke emission and toxic fumes create a potential threat to life and equipment.

### G = Green-yellow earth core

AWG-no.	NO. Cores x Cross-sec. mm <sup>2</sup>	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km	AWG-no.	NO. Cores x Cross-sec. mm <sup>2</sup>	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
20	3 G 0.5	1.6	45.0	150.0	16	3 G 1.5	10.9	82.0	187.0
20	4 G 0.5	9.4	54.0	170.0	16	4 G 1.5	12.2	99.0	240.0
20	5 G 0.5	10.1	66.0	199.0	16	5 G 1.5	13.3	123.0	289.0
18	3 G 0.75	9.0	57.0	155.0	14	3 G 2.5	12.2	148.0	298.0
18	4 G 0.75	9.9	63.0	190.0	14	4 G 2.5	13.4	169.0	345.0
18	5 G 0.75	10.8	76.0	228.0	14	5 G 2.5	14.9	220.0	427.0
17	3 G 1	9.8	64.0	163.0	12	3 G 4	15.1	178.0	397.0
17	4 G 1	10.8	76.0	200.0	12	4 G 4	16.7	234.0	527.0
17	5 G 1	12.1	89.0	239.0	12	5 G 4	18.6	284.0	700.0