

YY 500



Technical data

- Special PVC control cables
- **Temperature range**
flexing -5 °C to + 80 °C
fixed installation -40 °C to + 80 °C
- **Nominal voltage** 300/500 V
- **Test voltage** 3000 V
- **Minimum bending radius**
flexing 7.5 x cable diameter
fixed installation 4 x cable diameter

Cable structure

- Bare copper, fine wire conductors
- Special PVC core insulation
- Black cores with white figure imprints or color coded
- Green-yellow earth core in the outer layer (3 cores and above)
- Cores stranded in layers with optimal lay-length
- Special PVC outer sheath

Properties

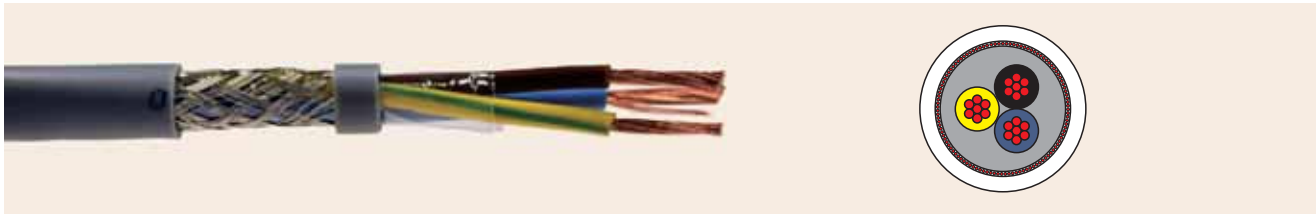
- Extensively oil resistant
- Chemical resistance
- PVC self-extinguishing and flame retardant IEC 60332-1

Application

These cables are designed for flexible uses and free movements under medium mechanical stress. Applications under tensile stress or forced movements are not recommended.

AWG-no.	NO. Cores x Cross-sec. mm ²	Insulation Diameter mm	Outer Diameter mm
20	2 x 0.5	2.0	4.6
20	3 x 0.5	2.0	5.2
20	4 x 0.5	2.0	6.0
20	5 x 0.5	2.0	7.6
20	7 x 0.5	2.0	8.5
20	12 x 0.5	2.0	10.8
20	18 x 0.5	2.0	12.8
20	25 x 0.5	2.0	14.5
12	3 x 4.0	4.6	12.0
12	4 x 4.0	4.6	14.0
10	3 x 6.0	5.2	12.8
10	5 x 6.0	5.2	15.2
8	7 x 10.0	6.5	23.5
4	4 x 25.0	10.6	28.2
2	4 x 35.0	11.8	31.5
1	4 x 50.0	15.0	40.5

CY 500



Technical data

- Special PVC sheathed cable
- **Temperature range**
flexing -5 °C to + 80 °C
fixed installation -40 °C to + 80°C
- **Nominal voltage** 300/500 V
- **Test voltage** 3000 V
- **Minimum bending radius**
flexing 10 x cable diameter
fixed installation 5 x cable diameter

Cable structure

- Bare copper conductor
- Core insulation of special PVC
- Black cores with continuous white numbering according
- Green-yellow earth core in the outer layer (3 cores and above)
- Separating foil
- Tinned copper braided screening, coverage approx. 85%
- Core wrapping from fleece guarantees good stripping capability
- PVC outer sheath

Relevant standard

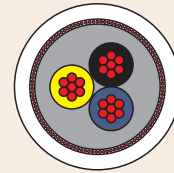
- **Conductor**
Stranding to VDE 0275 Class 5.
- **Cores** VDE 0812.
- **Sheath** VDE 0250 and 0251, BS 6500.

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.

AWG-no.	NO. Cores x Cross-sec. mm ²	Insulation Diameter mm	Braiding Coverage	Outer Diameter mm
20	2 x 0.5	2.0	85%	7.0
20	3 x 0.5	2.0	85%	7.2
20	4 x 0.5	2.0	85%	7.8
20	5 x 0.5	2.0	85%	8.4
20	7 x 0.5	2.0	85%	9.5
20	12 x 0.5	2.0	85%	11.4
20	18 x 0.5	2.0	85%	14.4
20	25 x 0.5	2.0	85%	15.2
12	3 x 4.0	4.6	85%	13.0
12	4 x 4.0	4.6	85%	15.0
10	3 x 6.0	5.2	85%	14.6
10	5 x 6.0	5.2	85%	17.4
8	7 x 10.0	6.5	85%	25.3
4	4 x 25.0	10.6	85%	30.3
2	4 x 35.0	11.8	85%	33.9
1	4 x 50.0	15.0	85%	42.8

SY 500



Technical data

- Special PVC control cables
- **Temperature range**
flexing -5 °C to + 80 °C
fixed installation -40 °C to + 80 °C
- **Nominal voltage** 300/500 V
- **Test voltage** 4000 V
- **Breakdown voltage** min. 8000 V
- **Insulation resistance**
min. 20 MOhm x km
- **Minimum bending radius**
flexing 20 x cable diameter
fixed installation 6 x cable diameter

Cable structure

- **Conductor:**
Flex wire strands of plain annealed copper.
Insulation: PVC or LSF
- **Assembly:** Cores twisted together in layers
- **Core Identification:**
Number coded, black cores with white number + green/yellow or color coded
- **Bedding:** PVC
- **Armor:** Galvanised steel wire armor
- **Sheath:** PVC Transparent.

Properties

- Extensively oil resistant
- Chemical resistance
- Flexible

Application

These are used as measurement and control cables in tooling machinery, plant installations, power stations and in data equipment. The armoring provides the best protection against mechanical damage. The transparent sheath allows convenient visual checks of the cable conditions.

AWG-no.	NO. Cores x Cross-sec. mm ²	Insulation Diameter mm	Armoring Coverage	Outer Diameter mm
20	2 x 0.5	2.0	80%	8.0
20	3 x 0.5	2.0	80%	9.2
20	4 x 0.5	2.0	80%	9.6
20	5 x 0.5	2.0	80%	10.0
20	7 x 0.5	2.0	80%	11.4
20	12 x 0.5	2.0	80%	13.6
20	18 x 0.5	2.0	80%	15.6
20	25 x 0.5	2.0	80%	19.2
12	3 x 4.0	4.6	80%	16.2
12	4 x 4.0	4.6	80%	17.8
10	3 x 6.0	5.2	80%	16.2
10	5 x 6.0	5.2	80%	21.6
8	7 x 10.0	6.5	80%	29.3
4	4 x 25.0	10.6	80%	34.9
2	4 x 35.0	11.8	80%	37.1
1	4 x 50.0	15.0	80%	44.8

YY 750



Technical data

- Special PVC control cables
- **Temperature range**
flexing -5 °C to + 80 °C
fixed installation -40 °C to + 80 °C
- **Nominal voltage** 450/750 V
- **Test voltage** 4000 V
- **Minimum bending radius**
flexing 7.5 x cable diameter
fixed installation 4 x cable diameter

Cable structure

- Bare copper, fine wire conductors
- Special PVC core insulation
- Black cores with white figure imprints or color coded
- Green-yellow earth core in the outer layer (3 cores and above)
- Cores stranded in layers with optimal lay-length
- Special PVC outer sheath

Properties

- Extensively oil resistant
- Chemical resistance
- PVC self-extinguishing and flame retardant IEC 60332-1

Application

These cables are designed for flexible uses and free movements under medium mechanical stress. Applications under tensile stress or forced movements are not recommended.

G = Green-yellow earth core

AWG-no.	NO. Cores x Cross-sec. mm ²	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km	AWG-no.	NO. Cores x Cross-sec. mm ²	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
20	2 x 0.5	5.6	9.6	48.0	17	2 x 1	6.4	20.0	80.0
20	3 x 0.5	5.9	14.5	65.0	17	3 G 1	6.8	29.0	92.0
20	4 x 0.5	6.7	20.0	81.0	17	3 x 1	6.8	29.0	92.0
20	5 x 0.5	7.3	24.0	98.0	17	4 G 1	7.5	39.0	122.0
20	7 x 0.5	8.8	34.0	123.0	17	4 x 1	7.5	39.0	122.0
20	8 x 0.5	9.6	38.0	155.0	17	5 G 1	8.4	48.0	137.0
20	10 x 0.5	10.6	48.0	180.0	17	7 G 1	10.0	68.0	186.0
20	22 x 0.5	11.1	58.0	208.0					
18	2 x 0.75	6.1	15.0	60.0	16	2 x 1.5	7.4	29.0	90.0
18	3 x 0.75	6.5	22.0	78.0	16	3 G 1.5	8.0	43.0	120.0
18	4 x 0.75	7.1	29.0	104.0	16	3 x 1.5	8.0	43.0	120.0
18	5 x 0.75	7.9	36.0	116.0	16	4 G 1.5	8.7	58.0	155.0
18	7 x 0.75	9.5	51.0	148.0	16	4 x 1.5	8.7	58.0	155.0
18	8 x 0.75	10.2	58.0	160.0	16	5 G 1.5	9.8	72.0	177.0
18	10 x 0.75	11.4	72.0	195.0	16	7 G 1.5	11.9	101.0	220.0
18	12 x 0.75	11.6	87.0	248.0					

YY 1000



Technical data

- Special PVC control cables Adapted to DIN VDE 0262/12.95 and DIN VDE 0281 part 13, with insulation thickness for 1 kV type
- **Temperature range**
flexing -5 °C to + 80 °C
fixed installation -40 °C to + 80 °C
- **Nominal voltage** 0.6/1 kV
- **Test voltage** 4000 V
- **Minimum bending radius**
flexing 7.5 x cable diameter
fixed installation 4 x cable diameter

Cable structure

- Bare copper, fine wire conductors
- Special PVC core insulation
- Black cores with white figure imprints or color coded
- Green-yellow earth core in the outer layer (3 cores and above)
- Special PVC outer sheath

Properties

- Extensively oil resistant, chemical resistance
- PVC self-extinguishing and flame retardant IEC 60332-1

Application

These wiring cables are used for measurement and control purposes in tooling machinery, conveyor belts and production lines, for plant installations, air conditioning and in steel production plants and rolling mills.

G = Green-yellow earth core

AWG-no.	NO. Cores x Cross-sec. mm ²	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km	AWG-no.	NO. Cores x Cross-sec. mm ²	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
20	2 x 0.5	6.3	9.6	56.0	18	2 x 0.75	6.6	14.4	66.0
20	3 G 0.5	6.7	14.4	68.0	18	3 G 0.75	7.0	21.6	74.0
20	3 x 0.5	6.7	14.4	68.0	18	3 x 0.75	7.0	21.6	74.0
20	4 G 0.5	7.2	19.0	100.0	18	4 G 0.75	7.6	29.0	126.0
20	4 x 0.5	7.2	19.0	100.0	18	4 x 0.75	7.6	29.0	126.0
20	5 G 0.5	8.0	24.0	117.0	18	5 G 0.75	8.4	36.0	140.0
20	5 x 0.5	8.0	24.0	117.0	18	5 x 0.75	8.4	36.0	140.0
20	6 G 0.5	8.9	29.0	126.0	18	6 G 0.75	9.3	43.0	170.0
20	7 G 0.5	8.9	33.6	138.0	18	6 x 0.75	9.3	43.0	170.0
20	7 x 0.5	8.9	33.6	138.0	18	7 G 0.75	9.3	50.0	190.0
20	8 G 0.5	10.2	38.0	150.0	18	7 x 0.75	9.3	50.0	190.0
20	8 x 0.5	10.2	38.0	150.0	18	8 G 0.75	10.9	58.0	212.0
20	10 G 0.5	11.2	48.0	176.0	18	8 x 0.75	10.9	58.0	212.0
					18	9 G 0.75	11.8	65.0	227.0
					18	10 G 0.75	11.8	72.0	238.0

CY 1000



Technical data

- Special control cables with thermoplastic PVC insulation on the basis of DIN VDE 0262/12.95 and DIN VDE 0281 part 13
- **Temperature range**
flexing -5 °C to + 80°C
fixed installation -40 °C to + 90°C
- **Nominal voltage** 0.6/1 kV
- **Test voltage** 4000 V
- **Breakdown voltage** min. 8000 V
- **Insulation resistance**
min. 20 MOhm x km
- **Minimum bending radius**
flexing 10 x cable diameter
fixed installation 5 x cable diameter

Cable structure

- Bare copper, fine wire conductors
- Special PVC core insulation
- Black cores with sequential numbering imprinted in white or color coded
- PVC-insulated inner sheath
- Braided screen of tinned Cu wires, coverage approx. 85%
- Special PVC outer sheath

Properties

- Extensively oil resistant
- PVC self-extinguishing and flame retardant IEC 60332-1

Application

These wiring cables are used for measurement and control purposes in tooling machinery, conveyor belts and production lines, for plant installations, air conditioning and in steel production plants and rolling mills. These cables are designed for flexible uses and free movements under medium mechanical stress in dry or moist conditions.

G = Green-yellow earth core

AWG-no.	NO. Cores x Cross-sec. mm ²	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km	AWG-no.	NO. Cores x Cross-sec. mm ²	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
20	2 x 0.5	8.5	41.0	129.0	17	2 x 1	9.4	54.0	150.0
20	3 G 0.5	8.8	45.0	150.0	17	3 G 1	9.8	64.0	163.0
20	4 G 0.5	9.6	54.0	170.0	17	4 G 1	10.4	76.0	200.0
20	5 G 0.5	10.2	66.0	199.0	17	5 G 1	11.4	89.0	239.0
20	7 G 0.5	11.1	79.0	235.0	17	7 G 1	12.5	114.0	289.0
20	12 G 0.5	14.0	137.0	320.0	17	12 G 1	15.7	186.0	464.0
20	18 G x 0.5	16.2	156.0	428.0	17	18 G 1	18.4	284.0	628.0
20	25 G 0.5	19.0	250.0	503.0	17	25 G 1	21.8	387.0	855.0
18	2 x 0.75	8.8	46.0	143.0	16	2 x 1.5	10.4	64.0	162.0
18	3 G 0.75	9.3	57.0	155.0	16	3 G 1.5	11.1	82.0	187.0
18	4 G 0.75	9.9	63.0	190.0	16	4 G 1.5	11.8	99.0	240.0
18	5 G 0.75	10.8	76.0	228.0	16	5 G 1.5	13.1	123.0	289.0
18	7 G 0.75	11.5	100.0	323.0	16	7 G 1.5	14.2	148.0	383.0
18	12 G 0.75	14.6	175.0	410.0	16	12 G 1.5	18.4	274.0	592.0
18	18 G x 0.75	17.1	240.0	560.0	16	18 G x 1.5	21.5	386.0	806.0
18	25 G 0.75	20.3	306.0	730.0	16	25 G 1.5	25.0	531.0	1241.0

H05VV5-F



Technical data

- Control cable, special PVC with oil resistant outer jacket to DIN VDE 0281 part 13, HD 21.13S1 and IEC 60227/75
- **Temperature range**
flexing -5 °C to + 70 °C
fixed installation -40 °C to + 70 °C
- **Nominal voltage** 300/500 V
- **Test voltage** 2000 V, 5 min.
- **Minimum bending radius**
flexing 7.5 x cable diameter
fixed installation 4 x cable diameter

Cable structure

- Bare copper, fine wire stranded conductor
- Special PVC core insulation
- Black cores with white figure imprint to DIN VDE 0293
- Green-yellow earth core in the outer layer (3 cores and above)
- Cores stranded in layers
- Special PVC outer jacket

Properties

- PVC self-extinguishing and flame retardant
- Oil resistant to HD/EN 60811-2-1

Application

These cables are designed for flexible uses and free movements under medium mechanical stress. They are also used as control and connecting cables to machines, tooling machinery, conveyor belts and production lines. Applications under tensile stress or forced movements or open air conditions are not recommended.

G = Green-yellow earth core

AWG-no.	NO. Cores x Cross-sec. mm ²	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km	AWG-no.	NO. Cores x Cross-sec. mm ²	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
20	2 x 0.5	5.9	9.7	46.0	18	2 x 0.75	6.3	14.1	52.0
20	3 G 0.5	6.2	14.7	54.0	18	3 G 0.75	6.7	21.6	68.0
20	4 G 0.5	6.7	19.0	65.0	18	4 G 0.75	7.3	29.0	82.0
20	5 G 0.5	7.4	24.0	80.0	18	5 G 0.75	8.3	36.0	107.0
20	6 G 0.5	8.4	29.0	104.0	18	6 G 0.75	9.0	43.0	132.0
20	7 G 0.5	9.1	33.6	119.0	18	7 G 0.75	9.7	50.0	145.0
20	8 G 0.5	9.6	38.0	134.0	18	8 G 0.75	10.4	58.0	189.0
20	9 G 0.5	10.6	43.0	136.0	18	9 G 0.75	11.5	65.0	194.0
20	10 G 0.5	10.8	48.0	166.0	18	12 G 0.75	12.0	86.0	231.0
20	12 G 0.5	11.2	58.0	186.0	18	14 G 0.75	12.4	101.0	274.0
20	14 G 0.5	11.7	67.0	215.0	18	18 G 0.75	14.0	130.0	313.0
20	18 G 0.5	13.0	86.0	251.0	18	25 G 0.75	17.0	180.0	461.0
20	25 G 0.5	16.0	120.0	349.0	18	27 G 0.75	17.1	195.0	493.0
20	27 G 0.5	16.1	129.6	373.0	18	34 G 0.75	19.1	245.0	614.0
20	34 G 0.5	17.7	163.0	480.0	18	36 G 0.75	19.1	259.0	646.0
20	36 G 0.5	17.7	172.0	510.0	18	41 G 0.75	21.3	295.0	730.0
20	41 G 0.5	19.8	196.0	570.0	18	50 G 0.75	23.2	360.0	896.0
20	50 G 0.5	21.5	240.0	658.0					

H05VVC4V5-K



Technical data

- Control cable, special PVC with oil resistant outer jacket to DIN VDE 0281 part 13, HD 21.13S1 and IEC 60227/74
- **Temperature range**
flexing -5 °C to + 70 °C
fixed installation -40 °C to + 70 °C
- **Nominal voltage** 300/500 V
- **Test voltage**
core/core 2 kV, 5 min
core/screen 2 kV, 5 min
- **Minimum bending radius**
flexing 10 x cable diameter
fixed installation 5 x cable diameter

Cable structure

- Bare copper, fine wire stranded conductor
- Special PVC core insulation
- Black cores with white figure imprint to DIN VDE 0293
- Green-yellow earth core in the outer layer (3 cores and above)
- Special PVC outer jacket

Properties

- PVC self-extinguishing and flame retardant
- Oil resistant to HD/EN 60811-2-1

Application

These cables are designed for flexible uses and free movements under medium mechanical stress. They are also used as control and connecting cables to machines, tooling machinery, conveyor belts and production lines. Applications under tensile stress or forced movements or open air conditions are not recommended.

G = Green-yellow earth core

AWG-no.	NO. Cores x Cross-sec. mm ²	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km	AWG-no.	NO. Cores x Cross-sec. mm ²	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
20	2 x 0.5	8.0	41.0	92.0	18	2 x 0.75	8.3	46.0	102.0
20	3 G 0.5	8.4	45.0	109.0	18	3 G 0.75	8.8	57.0	115.0
20	4 G 0.5	9.1	54.0	126.0	18	4 G 0.75	9.8	63.0	150.0
20	5 G 0.5	10.1	66.0	156.0	18	5 G 0.75	10.8	76.0	173.0
20	6 G 0.5	10.7	73.0	176.0	18	6 G 0.75	11.4	82.0	195.0
20	7 G 0.5	11.4	79.0	192.0	18	7 G 0.75	12.1	100.0	235.0
20	8 G 0.5	12.5	82.0	211.0	18	8 G 0.75	12.7	112.0	268.0
20	9 G 0.5	12.5	94.0	230.0	18	9 G 0.75	13.8	130.0	285.0
20	12 G 0.5	13.5	137.0	280.0	18	12 G 0.75	14.3	175.0	327.0
20	14 G 0.5	14.2	142.0	302.0	18	14 G 0.75	14.4	190.0	362.0
20	18 G 0.5	15.8	156.0	384.0	18	18 G 0.75	16.9	240.0	488.0
20	25 G 0.5	18.6	250.0	556.0	18	25 G 0.75	20.0	306.0	654.0
20	27 G 0.5	18.6	255.0	599.0	18	27 G 0.75	20.0	326.0	708.0
20	34 G 0.5	20.8	316.0	634.0	18	34 G 0.75	22.1	346.0	821.0
20	36 G 0.5	20.8	320.0	620.0	18	36 G 0.75	22.1	358.0	899.0
20	41 G 0.5	23.0	348.0	770.0	18	41 G 0.75	23.9	403.0	970.0
20	50 G 0.5	25.0	407.0	970.0	18	50 G 0.75	26.8	470.0	1160.0

H03VV-F



Technical data

- PVC-control cables to DIN VDE 0281 part 5 and IEC 60227-5, HD 21.5 S3
- **Temperature range**
flexing -5 °C to + 70 °C
fixed installation -40 °C to + 70 °C
- **Nominal voltage** 300/300 V
- **Test voltage** 2000 V
- **Minimum bending radius**
flexing 7.5 x cable diameter

Cable structure

- Bare copper, fine wire conductors
- PVC core insulation
- Cores color coded to DIN VDE 0293-308
6 and more cores number coded
1x green-yellow earth core incl.
- Green-yellow earth-core, 3 cores and above
- PVC outer jacket

Properties

- PVC self-extinguishing and flame retardant IEC 60332-1

Application

These cables are suitable for use in small appliances under low mechanical stress, such as connection in household appliances, e.g. kitchen devices, lightings, office equipment, etc.

G = Green-yellow earth core

AWG-no.	NO. Cores x Cross-sec. mm ²	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
20	2 x 0.5	5.1	9.6	40.0
20	3 G 0.5	5.5	14.4	49.0
20	4 G 0.5	6.0	19.2	61.0
18	2 x 0.75	5.4	14.4	49.0
18	3 G 0.75	5.7	21.6	59.0
18	4 G 0.75	6.3	29.0	72.0
18	5 G 0.75	7.1	36.0	87.0
18	6 G 0.75	7.8	43.0	98.0
18	7 G 0.75	7.8	50.0	108.0

H05VV-F



Technical data

- PVC-control cables to DIN VDE0281 part 5 and IEC 60227-5, HD 21.5 S3
- **Temperature range**
flexing -5 °C to + 70 °C
fixed installation -40 °C to + 70 °C
- **Nominal voltage** 300/500 V
- **Test voltage** 2000 V
- **Minimum bending radius**
flexing 7.5 x cable diameter

Cable structure

- Bare copper, fine wire conductors
- PVC core insulation
- Cores color coded to DIN VDE 0293-308
1x green-yellow earth core incl.
- Green-yellow earth core, 3 cores and above
- PVC outer jacket

Properties

- PVC self-extinguishing and flame retardant IEC 60332-1

Application

These cables are suitable for use under medium mechanical stress for household appliances in damp conditions, e.g. refrigerators, washing machines, etc.

G = Green-yellow earth core

AWG-no.	NO. Cores x Cross-sec. mm ²	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
18	2 x 0.75	6.4	14.4	50.0
18	3 G 0.75	6.8	21.6	60.0
18	4 G 0.75	7.4	29.0	73.0
18	4 G 0.75	8.3	36.0	88.0
17	2 x 1	6.8	19.0	57.0
17	3 G 1	7.2	29.0	73.0
17	4 G 1	8.0	38.0	85.0
17	5 G 1	8.8	48.0	105.0
17	7 G 1	9.8	67.0	131.0
16	2 x 1.5	7.6	29.0	82.0
16	3 G 1.5	8.2	43.0	95.0
16	4 G 1.5	9.2	58.0	117.0
16	5 G 1.5	9.3	72.0	144.0
16	7 G 1.5	10.8	101.0	183.0

AWG-no.	NO. Cores x Cross-sec. mm ²	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
14	3 G 2.5	10.1	72.0	152.0
14	4 G 2.5	11.2	96.0	192.0
14	5 G 2.5	12.4	120.0	243.0
14	7 G 2.5	12.9	168.0	316.0
12	3 G 4	11.3	115.0	235.0
12	4 G 4	12.5	154.0	300.0
12	5 G 4	13.7	192.0	361.0
10	4 G 6	13.9	230.0	490.0