

CT-500 Color core, Number coded core, Meter marking



Technical data

- Special-PVC control cable adapted to DIN 0285-525-2-51 / DIN EN 50525-2-51
- **Temperature range**
flexing -15°C to +80°C
fixed installation -40°C to +80°C
- **Nominal voltage** U_0/U 300/500 V
- **Test voltage** 4000 V
- **Breakdown voltage** min. 8000 V
- **Insulation resistance**
min. 20 MOhm x km
- **Minimum bending radius**
flexing 7,5x cable \emptyset
fixed installation 4x cable \emptyset
- **Radiation resistance**
up to 80x10⁶ cJ/kg (up to 80 Mrad)

Cable structure

- Bare copper-conductor
- Core insulation of special PVC
- Core identification to DIN 0293
black cores with continuous white numbering
- GN-YE conductor, 3 cores and above in the outer layer
- Cores stranded in layers with optimal lay-length
- Outer sheath of special PVC compound type
- Sheath colour grey
- with meter marking

Product characteristics

- conditional drag chain compatible
- conditional suitability for torsion
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Note

- G = Garn

Application

These cables are used for flexible use for medium mechanical stresses with free movement without tensile stress or forced movements in dry, moist and wet rooms but not suitable for open air, as measuring and control cables in tool machines, conveyor belts, production lines in machinery production, in air-conditioning and in steel production.

Selected PVC-compounds guarantee a good flexibility as well as an economic and fast installation.

CE = The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Part no.	No. cores x cross-sec.mm ²	Color of core	OD approx. mm
CT-10052	2G 0.5	Brown, Blue	5.80
CT-10053	3G 0.5	Brown, blue, yellow-green	6.00
CT-10054	4G 0.5	Brown, blue, yellow-green,black	6.70
CT-10055	5G 0.5	Brown, blue, yellow-green,black,grey	7.10
CT-10056	6G 0.5	Brown, blue, yellow-green,black,grey,red	7.40
CT-10057	7G 0.5	Brown, blue, yellow-green,black,grey,red,purple	7.80
CT-10058	8G 0.5	Yellow-green,Black core coded (No.1-7)	8.30
CT-10510	10G 0.5	Yellow-green,Black core coded (No.1-9)	9.00
CT-10512	12G 0.5	Yellow-green,Black core coded (No.1-11)	9.70
CT-10516	16G 0.5	Yellow-green,Black core coded (No.1-15)	11.00
CT-10520	20G 0.5	Yellow-green,Black core coded (No.1-19)	11.80
CT-10525	25G 0.5	Yellow-green,Black core coded (No.1-24)	14.00
CT-10530	30G 0.5	Yellow-green,Black core coded (No.1-29)	15.50

PVC CONTROL CABLES

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Part no.	No. cores x cross-sec.mm ²	Color of core	OD approx. mm
CT-10752	2G 0.75	Brown, Blue	6.70
CT-10753	3G 0.75	Brown, blue, yellow-green	7.20
CT-10754	4G 0.75	Brown, blue, yellow-green,black	7.80
CT-10755	5G 0.75	Brown, blue, yellow-green,black,grey	8.80
CT-10756	6G 0.75	Brown, blue, yellow-green,black,grey,red	9.20
CT-10757	7G 0.75	Brown, blue, yellow-green,black,grey,red,purple	9.60
CT-10758	8G 0.75	Yellow-green,Black core coded (No.1-7)	9.70
CT-17510	10G 0.75	Yellow-green,Black core coded (No.1-9)	11.72
CT-17512	12G 0.75	Yellow-green,Black core coded (No.1-11)	11.80
CT-17516	16G 0.75	Yellow-green,Black core coded (No.1-15)	13.20
CT-17520	20G 0.75	Yellow-green,Black core coded (No.1-19)	14.10
CT-17525	25G 0.75	Yellow-green,Black core coded (No.1-24)	16.30
CT-17530	30G 0.75	Yellow-green,Black core coded (No.1-29)	17.50
CT-10102	2G 1.0	Brown, Blue	7.00
CT-10103	3G 1.0	Brown, blue, yellow-green	8.00
CT-10104	4G 1.0	Brown, blue, yellow-green,black	8.70
CT-10105	5G 1.0	Brown, blue, yellow-green,black,grey	9.80
CT-10106	6G 1.0	Brown, blue, yellow-green,black,grey,red	10.20
CT-10107	7G 1.0	Brown, blue, yellow-green,black,grey,red,purple	10.70
CT-10108	8G 1.0	Yellow-green,Black core coded (No.1-7)	11.20
CT-11010	10G 1.0	Yellow-green,Black core coded (No.1-9)	12.70
CT-11012	12G 1.0	Yellow-green,Black core coded (No.1-11)	13.20
CT-11016	16G 1.0	Yellow-green,Black core coded (No.1-15)	14.80
CT-11020	20G 1.0	Yellow-green,Black core coded (No.1-19)	16.30
CT-11025	25G 1.0	Yellow-green,Black core coded (No.1-24)	18.70
CT-11030	30G 1.0	Yellow-green,Black core coded (No.1-29)	19.30
CT-10152	2G 1.5	Brown, Blue	7.80
CT-10153	3G 1.5	Brown, blue, yellow-green	8.80
CT-10154	4G 1.5	Brown, blue, yellow-green,black	9.50
CT-10155	5G 1.5	Brown, blue, yellow-green,black,grey	10.40
CT-10156	6G 1.5	Brown, blue, yellow-green,black,grey,red	10.90
CT-10157	7G 1.5	Brown, blue, yellow-green,black,grey,red,purple	11.40
CT-10158	8G 1.5	Yellow-green,Black core coded (No.1-7)	12.40
CT-11510	10G 1.5	Yellow-green,Black core coded (No.1-9)	14.20
CT-11512	12G 1.5	Yellow-green,Black core coded (No.1-11)	15.00
CT-11516	16G 1.5	Yellow-green,Black core coded (No.1-15)	16.40
CT-11520	20G 1.5	Yellow-green,Black core coded (No.1-19)	18.00
CT-11525	25G 1.5	Yellow-green,Black core coded (No.1-24)	19.50
CT-11530	30G 1.5	Yellow-green,Black core coded (No.1-29)	21.00

PVC SHIELD CONTROL CABLES

SH-500 Color core, Number coded core, Braiding screen, Meter marking



Technical data

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- **Temperature range**
flexing -15°C to +80°C
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- **Nominal voltage** U_0/U 300/500 V
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- **Breakdown voltage** min. 8000 V
- **Insulation resistance**
min. 20 MOhm x km
- **Minimum bending radius**
flexing 7,5x cable \emptyset
fixed installation 4x cable \emptyset
- **Radiation resistance**
up to 80×10^6 cJ/kg (up to 80 Mrad)

Cable structure

- Bare copper-conductor
- Core insulation of special PVC
- Core identification to DIN 0293 black cores with continuous white numbering
- GN-YE conductor, 3 cores and above in the outer layer
- Cores stranded in layers with optimal lay-length
- Aluminum foil
- Bare copper braided screening, approx. 85% coverage
- Outer sheath of special PVC compound type
- Sheath colour grey
- with meter marking

Product characteristics

- Good signal transmission effect
- Conditional drag chain compatible
- Conditional suitability for torsion
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Note

- G = Garn

Application

For use as a data cable in control circuits, in tool-making and machine industries as well as a signal cable in computer systems and electronics. The more usual PVC inner sheath has been replaced in these cables by a stabilising foil separator, thus reducing the total diameter of the cables considerably and thereby reducing the bending radius, total weight etc. The high covering percentage of the copper screening offers interference-free signal transfer etc. The dense screening assures disturbance-free transmission of all signals and impulses. An ideal disturbance-free control cable for the above application.

Selected PVC-compounds guarantee a good flexibility as well as an economic and fast installation.

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Part no.	No. cores x cross-sec.mm ²	Color of core	OD approx. mm
SH-10052	2G 0.5	Brown, Blue	5.80
SH-10053	3G 0.5	Brown, blue, yellow-green	6.00
SH-10054	4G 0.5	Brown, blue, yellow-green,black	6.70
SH-10055	5G 0.5	Brown, blue, yellow-green,black,grey	7.10
SH-10056	6G 0.5	Brown, blue, yellow-green,black,grey,red	7.40
SH-10057	7G 0.5	Brown, blue, yellow-green,black,grey,red,purple	7.80
SH-10058	8G 0.5	Yellow-green,Black core coded (No.1-7)	8.30
SH-10510	10G 0.5	Yellow-green,Black core coded (No.1-9)	9.00
SH-10512	12G 0.5	Yellow-green,Black core coded (No.1-11)	9.70
SH-10516	16G 0.5	Yellow-green,Black core coded (No.1-15)	11.00
SH-10520	20G 0.5	Yellow-green,Black core coded (No.1-19)	11.80
SH-10525	25G 0.5	Yellow-green,Black core coded (No.1-24)	14.00
SH-10530	30G 0.5	Yellow-green,Black core coded (No.1-29)	15.50

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SH-10755	5G 0.75	Brown, blue, yellow-green,black,grey	8.80
SH-10756	6G 0.75	Brown, blue, yellow-green,black,grey,red	9.20
SH-10757	7G 0.75	Brown, blue, yellow-green,black,grey,red,purple	9.60
SH-10758	8G 0.75	Yellow-green,Black core coded (No.1-7)	9.70
SH-17510	10G 0.75	Yellow-green,Black core coded (No.1-9)	11.72
SH-17512	12G 0.75	Yellow-green,Black core coded (No.1-11)	11.80
SH-17516	16G 0.75	Yellow-green,Black core coded (No.1-15)	13.20
SH-17520	20G 0.75	Yellow-green,Black core coded (No.1-19)	14.10
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SH-10155	5G 1.5	Brown, blue, yellow-green,black,grey	10.40
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SH-11512	12G 1.5	Yellow-green,Black core coded (No.1-11)	15.00
SH-11516	16G 1.5	Yellow-green,Black core coded (No.1-15)	16.40
SH-11520	20G 1.5	Yellow-green,Black core coded (No.1-19)	18.00
SH-11525	25G 1.5	Yellow-green,Black core coded (No.1-24)	19.50
SH-11530	30G 1.5	Yellow-green,Black core coded (No.1-29)	21.00