



UNITRONIC® 100

Control and signal cable with small cross-sections



Info

- UNITRONIC® colour code with protective conductor

UNITRONIC® 100 CY

Screened control and signal cable with small cross-sections



Application range

- These control and signal cables are used in the milliampere range for computer systems, electronic control equipment, office machines, balances etc. and wherever the thinnest possible control cables are required.

Product features

UNITRONIC® 100

- Robust, flexible and resistant outer sheath
- Small outer diameter despite high number of cores
- Flame-retardant according IEC 60332-1-2
- 3 cores with earth wire (green-yellow)
2 cores (black/blue)

UNITRONIC® 100 CY

- Robust, flexible and resistant outer sheath
- Small outer diameter despite high number of cores
- Cable similar to UNITRONIC® 100, but with copper braiding
- Flame-retardant according IEC 60332-1-2
- 3 cores with earth wire (green-yellow)
2 cores (black/blue)

Norm references / Approvals

- Based on: VDE 0814 or VDE 0812

Product make-up

UNITRONIC® 100

- Fine-wire/multi-wire (0.34 mm²) strand made of bare copper wires
- Core insulation made of PVC
- Outer sheath made of PVC
Outer sheath colour: grey (RAL 7001)

UNITRONIC® 100 CY

- Fine-wire/multi-wire (0.34 mm²) strand made of bare copper wires
- Core insulation made of PVC
- Inner sheath made of PVC
- For the cross section of 0.14 mm², a polyester tape is used underneath the screen braiding instead of the inner sheath.
- Tinned-copper braiding
- Outer sheath made of PVC
Outer sheath colour: grey (RAL 7001)

Technical data

- Core identification code**
Refer to Appendix T7 for the UNITRONIC® colour codes
- Mutual capacitance**
Approx. 120 nF/km
- Peak operating voltage**
(not for power applications)
500 V
- Specific insulation resistance**
> 10 GOhm x cm
- Inductivity**
approx. 0.7 mH/km
- Conductor stranding**
Stranded, fine-wire
0.34 mm²: 7-wire
- Minimum bending radius**
UNITRONIC® 100
Occasional flexing: 15 x outer diameter
Fixed installation: 4 x outer diameter
UNITRONIC® 100 CY
Occasional flexing: 20 x outer diameter
Fixed installation: 6 x outer diameter
- Test voltage**
Core/core: 1500 V rms
Core/screen: 1500 V
- Protective conductor**
Green-yellow
- Temperature range**
Occasional flexing: -5°C to +70°C
Fixed installation: -40°C to +80°C

Article number	Number of cores and mm ² per conductor	Outer diameter (mm)	Copper index (kg/km)	Weight (kg/km)
UNITRONIC® 100				
0028009	2 x 0,14	3,0	2,8	12
0028010	3 x 0,14	3,2	4,2	17
0028011	4 x 0,14	3,4	5,4	19
0028012	5 x 0,14	3,7	7,0	22
0028014	7 x 0,14	4,0	9,8	27
0028015	10 x 0,14	5,0	14,0	41
0028019	24 x 0,14	7,2	33,6	94
0028020	27 x 0,14	7,4	36,5	107
0028023	40 x 0,14	8,9	54,0	152
0028025	52 x 0,14	10,0	72,8	198
0028030	3 x 0,25	3,8	7,5	21
0028031	7 x 0,25	4,9	17,5	48
0028032	10 x 0,25	6,4	25,0	77
0028033	14 x 0,25	6,9	35,0	95
0028034	16 x 0,25	7,3	40,0	112
0028035	21 x 0,25	8,5	52,5	139
0028036	24 x 0,25	9,0	60,0	163