



It's all in the details.

Our control cables make everything tick.



A brand of the

Prysmian
Group

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Prysmian control cables will always keep your projects ticking, they are built for the toughest jobs. If you need the highest standard of electromagnetic protection – Prysmian have it covered. Our cables will always run like clockwork.

COPPER TAPE CONTROL CABLES

0.6/1 kV V-90 INSULATED, PVC BEDDED, COPPER TAPE SCREEN, 5V-90 PVC SHEATHED.



Application

For control circuits unenclosed, enclosed in conduit, buried direct or in underground ducts for commercial, industrial, mining and electricity authority systems where not subject to mechanical damage. Suitable for glanding.

Standard / Approvals

AS/NZS 5000.1

Temperature range

Minimum installation temperature: 0 °C
Maximum operating temperature: 75 °C
Minimum operating temperature: -15 °C

Can also be operated at temperatures up to 90 °C when not exposed to mechanical deformation (see AS/NZS 3008.1.1).

Minimum bending radius as multiples of overall diameter

Installed cables: 12 × OD
During installation: 18 × OD

Flexibility

Semi-Rigid

Resistance to

Chemical exposure: Occasional
Mechanical impact: Light
Solar radiation and
weather exposure: Occasional

Cable design

Conductor:
Plain annealed copper conductor to AS/NZS 1125

Insulation:
PVC V-90
Colour: White with black numbering

Bedding:
5V-90 PVC
Colour: Black

Screen:
Copper tape screen

Sheath:
PVC 5V-90
Colour: Black

Installation conditions

In free air
In conduit
In trench
In underground duct
Buried Direct with protection
External building with protection

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian Group; any modification or alteration afterwards of product may give different result. The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed to be correct at the time of issue. Prysmian Group reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorised by Prysmian Group.

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Physical & electrical characteristics

0.6/1 kV V-90 insulated, PVC bedded, copper tape screen, 5V-90 PVC sheathed.

| Product code | Nominal C.S.A. mm ² | Number of cores | Nominal insulation thickness mm | Overall diameter | | Approx. mass kg/100 m | Min. installed bending radius mm |
|--------------|--------------------------------|-----------------|---------------------------------|------------------|---------|-----------------------|----------------------------------|
| | | | | min. mm | max. mm | | |
| 20199880 | 1.5 | 4 | 0.8 | 12.2 | 14.2 | 28 | 170 |
| 20199917 | 1.5 | 8 | 0.8 | 15.3 | 17.4 | 41 | 210 |
| 20199942 | 1.5 | 12 | 0.8 | 17.9 | 20.1 | 54 | 240 |
| 20199962 | 1.5 | 19 | 0.8 | 20.6 | 22.7 | 72 | 270 |
| 20213258 | 1.5 | 20 | 0.8 | 21.5 | 23.7 | 76 | 285 |
| 20247400 | 2.5 | 2 | 0.8 | 11.9 | 14.0 | 27 | 165 |
| 20199894 | 2.5 | 4 | 0.8 | 13.4 | 15.5 | 35 | 185 |
| 20199914 | 2.5 | 7 | 0.8 | 15.5 | 17.6 | 46 | 210 |
| 20199948 | 2.5 | 12 | 0.8 | 20.1 | 22.2 | 71 | 265 |
| 20358916 | 2.5 | 19 | 0.8 | 23.4 | 25.7 | 99 | 305 |
| 20203663 | 6 | 2 | 1.0 | 14.8 | 17.1 | 43 | 205 |
| 20199901 | 6 | 4 | 1.0 | 16.9 | 19.2 | 60 | 230 |
| 20199928 | 6 | 8 | 1.0 | 21.8 | 24.2 | 93 | 290 |
| 20199952 | 6 | 12 | 1.0 | 26.4 | 29.0 | 130 | 345 |
| 20203664 | 16 | 2 | 1.0 | 19.0 | 21.5 | 68 | 255 |
| 20199903 | 16 | 4 | 1.0 | 21.8 | 24.4 | 107 | 290 |

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| Number of cores | Current ratings | | | Electrical characteristics | |
|-----------------|-----------------|-----------------|-----------------------|------------------------------------|-------------------------|
| | Touching A | Buried direct A | Underground in duct A | Maximum DC resistance @ 20 °C Ω/km | Reactance per core Ω/km |
| 4 | 15 | 18 | 18 | 13.6 | 0.111 |
| 8 | 15 | 18 | 18 | 13.6 | 0.111 |
| 12 | 15 | 18 | 18 | 13.6 | 0.111 |
| 19 | 15 | 18 | 18 | 13.6 | 0.111 |
| 20 | 15 | 18 | 18 | 13.6 | 0.111 |
| 2 | 26 | 30 | 30 | 7.41 | 0.102 |
| 4 | 22 | 25 | 25 | 7.41 | 0.102 |
| 7 | 22 | 25 | 25 | 7.41 | 0.102 |
| 12 | 22 | 25 | 25 | 7.41 | 0.102 |
| 19 | 22 | 25 | 25 | 7.41 | 0.102 |
| 2 | 44 | 50 | 50 | 3.08 | 0.0967 |
| 4 | 37 | 42 | 42 | 3.08 | 0.0967 |
| 8 | 37 | 42 | 42 | 3.08 | 0.0967 |
| 12 | 37 | 42 | 42 | 3.08 | 0.0967 |
| 2 | 80 | 114 | 86 | 1.15 | 0.0861 |
| 4 | 68 | 96 | 73 | 1.15 | 0.0861 |

Linking the future

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