

Control Cables (Armoured)

CU CNTRL-ARM 2.5 X 12

Contact

General Sales inquiries
Phone: 0508 NEXANS
sales.nz@nexans.com

Nexans ref.: BPCP07NG012CXWW

Country ref.: 4840

Cu conductors, PVC insulation (numbered cores), Laid up, Extruded Bedding, GSW armour, Black PVC sheath. 0.6/1 kV. Made to BS 6346.

DESCRIPTION

Application

- Industrial and commercial applications
- Used as connection type of cable between control cabinets where a number of control signals are required; or for use in any areas where control of equipment is required.
- Both unarmoured and armoured controls are used in the similar style of application, the only difference being that in the case of unarmoured cable the customer may require mechanical protection of the cable.



STANDARDS

National BS 6346

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CHARACTERISTICS

Construction characteristics

Conductor material	Copper
Insulation	PVC
Material of bedding	PVC
Armour type	Galvanized steel wires
Outer sheath	PVC
Core identification	Numbers

Dimensional characteristics

Number of cores	12
Conductor cross-section	2.5 mm ²
Nominal overall diameter	22.3 mm
Gland Size (CW or E1FW)	25
Approximate weight	1.08 kg/m

Electrical characteristics

Max. DC resistance of the conductor at 20°C	7.41 Ohm/km
Rated Voltage U ₀ /U (Um)	0.6/ 1 (1.2) kV

Usage characteristics

Max. conductor temperature in service	70 °C
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MULTI CIRCUIT OPERATION

The circuit ratings given below are single circuit ratings, i.e. they relate to a single set of 2 or 3 loaded conductors. Whilst these cables are not intended for use as power cables, if they are to be operated with more than one set of conductors loaded for significant periods, the ratings given above should be reduced by application of an appropriate rating factor from the following table:

Rating factors for No. of Circuits

No. of circuits	2	3	4	5	6	8	10	12	14	16	18	20 or more
Rating factor	0.80	0.70	0.65	0.60	0.57	0.52	0.48	0.45	0.43	0.41	0.39	0.38

A cable consisting of n loaded conductors should be considered as n/2 circuits of two conductors or n/3 circuits of three loaded conductor is as applicable

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CURRENT CARRYING CAPACITIES (IN AMPS) - CONTROL CABLES

Control cables

Conductor cross-section [mm ²]				
	Cu	Cu	Cu	Cu
1.5	21	33	17	28.6
2.5	30	18	25	15.6

 Unenclosed touching 2 cond.  Voltage Drop 2 Cond. Single Phase (mV/A.m)  Unenclosed touching 3 cond.

 Voltage Drop 3 Cond. Three phase (mV/A.m)

Note

1. Content from AS/NZS 3008.1.2:2010 has been reproduced with the permission from Standards New Zealand under Copyright Licence 000926. Please see the Standard for full details.
2. The values in this table are for typical New Zealand installation conditions of:
Ambient Air Temperature 30°C