Control Cables

CU CNTRL 1.5 X 12

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

Nexans ref.: APAQ05AA012CXWW
Country ref.: 8983

Cu conductors, PVC insulation (numbered cores), Laid up, Black PVC sheath. 450/750 V. Made to AS/NZS 5000.3,

DESCRIPTION

Application

- Industrial and commercial applications
- Used as a connections 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 a 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 AS/NZS 5000.3

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CHARACTERISTICS

Construction characteristics	
Conductor material	Copper
Insulation	PVC
Outer sheath	PVC
Core identification	Black numbers
Dimensional characteristics	
Number of cores	12
Conductor cross-section	1.5 mm²
Nominal overall diameter	15.3 mm
Gland Size (A2 or A2F)	25
Approximate weight	0.38 kg/m
Electrical characteristics	
Max. DC resistance of the conductor at 20°C	13.6 Ohm/km
Rated Voltage Uo/U	450/750 V
Usage characteristics	
Max. conductor temperature in service	75 °C

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 [mm²]	 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