

# Control Cables

CU CNTRL 1.5 X 7

## Contact

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**Nexans Ref.:** APAQ05AA007CXWW

**Country Ref.:** 4511

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

## CHARACTERISTICS

### Construction characteristics

|                     |               |
|---------------------|---------------|
| Conductor material  | Copper        |
| Insulation          | PVC           |
| Outer sheath        | PVC           |
| Core identification | Black numbers |

### Dimensional characteristics

|                          |                     |
|--------------------------|---------------------|
| Number of cores          | 7                   |
| Conductor cross-section  | 1.5 mm <sup>2</sup> |
| Nominal overall diameter | 11.7 mm             |
| Gland Size (A2 or A2F)   | 20                  |
| Approximate weight       | 0.23 kg/m           |

### Electrical characteristics

|                                             |             |
|---------------------------------------------|-------------|
| Max. DC resistance of the conductor at 20°C | 13.6 Ohm/km |
| Rated Voltage U <sub>0</sub> /U             | 450/750 V   |

### Usage characteristics

|                                       |       |
|---------------------------------------|-------|
| Max. conductor temperature in service | 75 °C |
|---------------------------------------|-------|

## CURRENT CARRYING CAPACITIES (IN AMPS) - CONTROL CABLES

Control cables

| Conductor cross-section<br>[mm²]                                                                                            |  Cu                                         |  Cu |  Cu                          |  Cu |
|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| 1.5                                                                                                                         | 21                                                                                                                           | 33                                                                                   | 17                                                                                                              | 28.6                                                                                   |
|  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

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- The values in this table are for typical New Zealand installation conditions of:  
Ambient Air Temperature 30°C