Conduit Wires

CU CONDUIT 4 RD V90 1HM

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

Nexans ref.: BAAP09A1001AARD
Country ref.: 6347.1

Cu conductor, PVC insulation. 0.6/1 kV. Made to AS/NZS 5000.1.

DESCRIPTION

Application

- Industrial, commercial and domestic applications
- The wiring of switch boards and control panels
- Earth wiring in houses
- Wiring where the conduit wire is run inside a protective enclosure (plastic or metal conduits)

STANDARDS

National AS/NZS 5000.1

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CHARACTERISTICS

Construction characteristics	
Colour	Red
Insulating material	PVC
Type of conductor	Circular, stranded
Conductor material	Copper
Insulation	V-90
With Green/Yellow core	No
With smaller neutral conductor	No
Dimensional characteristics	
Conductor cross-section	4 mm²
Nominal overall diameter	4.7 mm
Approximate weight	0.06 kg/m
Number of cores	1
Electrical characteristics	
Max. DC resistance of the conductor at 20°C	4.61 Ohm/km
Rated Voltage Uo/U (Um)	0.6/ 1 (1.2) kV
Mechanical characteristics	
Cable flexibility	Rigid
Usage characteristics	
Max. conductor temperature in service	90 °C

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CURRENT CARRYING CAPACITIES SINGLE PHASE (IN AMPS) - CONDUIT WIRES

Copper conductor Circular stranded (except 1 mm² which is solid) Insulation PVC Max. Conductor Temperature 75C

Conductor cross-section [mm²]	Cu
1	15
1.5	21
2.5	27
4	36
6	47
10	62
16	80
25	107
35	128
50	157
70	194
95	242
120	276

Air enclosed

Note

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The values are for typical New Zealand installation conditions of:

- Ambient Air Temperature: 30°C

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CURRENT CARRYING CAPACITIES THREE PHASE (IN AMPS) - CONDUIT WIRES

Copper conductor Circular stranded (except 1 mm² which is solid) Insulation PVC Max. Conductor Temperature 75C

Conductor cross-section [mm²]	Cu
1	14
1.5	17
2.5	24
4	32
6	40
10	54
16	71
25	92
35	114
50	136
70	173
95	209
120	247

Air enclosed

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The values are for typical New Zealand installation conditions of:

- Ambient Air Temperature: 30°C