



## VVR

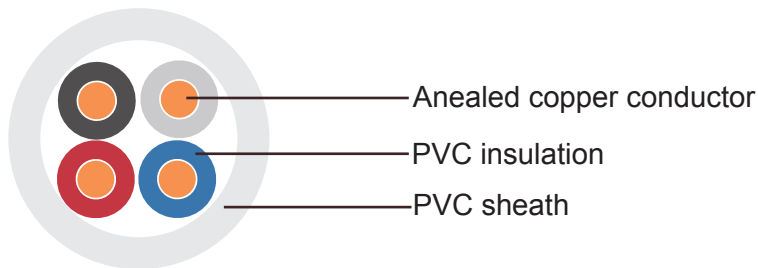
### Application and Description

Exposed wiring in air or use in raceway wet or dry location, direct burial in ground.

### Reference Standard:

TIS 11-2531

### Cable Construction:



Conductor: Solid and stranded annealed copper, Sizes: 0.5 mm<sup>2</sup> up to 35 mm<sup>2</sup>

Insulation: Polyvinyl chloride (PVC)

color: Single core – Light gray

2 cores – Light gray and Black

3 cores – Light gray, Black and Red

4 cores – Light gray, Black, Red and Blue

Sheath: Polyvinyl chloride (PVC), white color

### Technical Characteristics:

Maximum conductor temperature 70°C

Circuit voltage not exceeding 300 volts

Test voltage 2000 volts



## Cable Parameter:

| No. of core | Nominal cross section area | Number And diameter of wire | Insulation thickness | Sheath thickness | Max overall diameter | Minimum Insulation resistance at 70 0C | Maximum continuous current rating in free air | Cable weight |
|-------------|----------------------------|-----------------------------|----------------------|------------------|----------------------|--|---|--------------|
|             | mm <sup>2</sup>            | No./mm                      | mm                   | mm               | mm                   | MΩ-Km                                  | A   | Kg/Km        |
| 1           | 0.5                        | 1 / 0.80                    | 0.6                  | 0.9              | 4.4                  | 0.0146                                 | 10  | 21           |
|             | 1                          | 1 / 1.13                    | 0.6                  | 0.9              | 4.8                  | 0.0115                                 | 15  | 28           |
|             | 1                          | 7 / 0.43                    | 0.6                  | 0.9              | 5.0                  | 0.0110                                 | 15  | 30           |
|             | 1.5                        | 1 / 1.38                    | 0.6                  | 0.9              | 5.2                  | 0.0100                                 | 19  | 34           |
|             | 1.5                        | 7 / 0.53                    | 0.6                  | 0.9              | 5.4                  | 0.0094                                 | 19  | 37           |
|             | 2.5                        | 1 / 1.78                    | 0.7                  | 0.9              | 5.8                  | 0.0092                                 | 26  | 48           |
|             | 2.5                        | 7 / 0.67                    | 0.7                  | 0.9              | 6.2                  | 0.0084                                 | 26  | 50           |
|             | 4                          | 1 / 2.25                    | 0.8                  | 0.9              | 6.6                  | 0.0086                                 | 35  | 65           |
|             | 4                          | 7 / 0.85                    | 0.8                  | 0.9              | 7.0                  | 0.0078                                 | 35  | 70           |
|             | 6                          | 7 / 1.04                    | 0.8                  | 0.9              | 7.6                  | 0.0066                                 | 46  | 95           |
|             | 10                         | 7 / 1.35                    | 0.9                  | 0.9              | 8.6                  | 0.0059                                 | 64  | 140          |
|             | 16                         | 7 / 1.70                    | 1.0                  | 1.2              | 11.0                 | 0.0053                                 | 87  | 220          |
|             | 25                         | 7 / 2.14                    | 1.2                  | 1.2              | 12.5                 | 0.0051                                 | 117   | 330          |
|             | 35                         | 19 / 1.53                   | 1.2                  | 1.2              | 14.0                 | 0.0043                                 | 144   | 430          |
| 2           | 0.5                        | 1 / 0.80                    | 0.6                  | 0.9              | 6.8                  | 0.0146                                 | 9   | 48           |
|             | 1                          | 1 / 1.13                    | 0.6                  | 0.9              | 7.6                  | 0.0115                                 | 14  | 65           |
|             | 1                          | 7 / 0.43                    | 0.6                  | 0.9              | 8.0                  | 0.0110                                 | 14  | 65           |
|             | 1.5                        | 1 / 1.38                    | 0.6                  | 1.2              | 8.8                  | 0.0100                                 | 18  | 90           |
|             | 1.5                        | 7 / 0.53                    | 0.6                  | 1.2              | 9.2                  | 0.0094                                 | 18  | 90           |
|             | 2.5                        | 1 / 1.78                    | 0.7                  | 1.2              | 10.0                 | 0.0092                                 | 24  | 130          |
|             | 2.5                        | 7 / 0.67                    | 0.7                  | 1.2              | 11.0                 | 0.0084                                 | 24  | 130          |
|             | 4                          | 1 / 2.25                    | 0.8                  | 1.2              | 11.5                 | 0.0086                                 | 32  | 180          |
|             | 4                          | 7 / 0.85                    | 0.8                  | 1.2              | 12.5                 | 0.0078                                 | 32  | 180          |
|             | 6                          | 7 / 1.04                    | 0.8                  | 1.2              | 13.5                 | 0.0066                                 | 43  | 260          |
|             | 10                         | 7 / 1.35                    | 0.9                  | 1.2              | 16.0                 | 0.0059                                 | 60  | 390          |
|             | 16                         | 7 / 1.70                    | 1.0                  | 1.4              | 19.0                 | 0.0053                                 | 80  | 580          |
|             | 25                         | 7 / 2.14                    | 1.2                  | 1.4              | 22.5                 | 0.0051                                 | 107   | 870          |
|             | 35                         | 19 / 1.53                   | 1.2                  | 1.4              | 25.5                 | 0.0043                                 | 132   | 1130         |





# Caledonian

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| No. of core | Nominal cross section area | Number And diameter of wire | Insulation thickness | Sheath thickness | Max overall diameter | Minimum Insulation resistance at 70 0C | Maximum continuous current rating in free air | Cable weight |
|-------------|----------------------------|-----------------------------|----------------------|------------------|----------------------|--|---|--------------|
|             | mm <sup>2</sup>            | No./mm                      | mm                   | mm               | mm                   | MΩ-Km                                  | A   | Kg/Km        |
| 3           | 0.5                        | 1 / 0.80                    | 0.6                  | 0.9              | 7.2                  | 0.0146                                 | 7   | 55           |
|             | 1                          | 1 / 1.13                    | 0.6                  | 0.9              | 8.0                  | 0.0115                                 | 11  | 80           |
|             | 1                          | 7 / 0.43                    | 0.6                  | 0.9              | 8.4                  | 0.0110                                 | 11  | 80           |
|             | 1.5                        | 1 / 1.38                    | 0.6                  | 1.2              | 9.2                  | 0.0100                                 | 15  | 110          |
|             | 1.5                        | 7 / 0.53                    | 0.6                  | 1.2              | 9.6                  | 0.0094                                 | 15  | 110          |
|             | 2.5                        | 1 / 1.78                    | 0.7                  | 1.2              | 10.5                 | 0.0092                                 | 20  | 160          |
|             | 2.5                        | 7 / 0.67                    | 0.7                  | 1.2              | 11.5                 | 0.0084                                 | 20  | 160          |
|             | 4                          | 1 / 2.25                    | 0.8                  | 1.2              | 12.5                 | 0.0086                                 | 27  | 230          |
|             | 4                          | 7 / 0.85                    | 0.8                  | 1.2              | 13.0                 | 0.0078                                 | 27  | 230          |
|             | 6                          | 7 / 1.04                    | 0.8                  | 1.2              | 14.5                 | 0.0066                                 | 36  | 330          |
|             | 10                         | 7 / 1.35                    | 0.9                  | 1.2              | 17.0                 | 0.0059                                 | 50  | 490          |
|             | 16                         | 7 / 1.70                    | 1.0                  | 1.4              | 20.0                 | 0.0053                                 | 67  | 740          |
|             | 25                         | 7 / 2.14                    | 1.2                  | 1.8              | 25.0                 | 0.0051                                 | 90  | 1180         |
| 35          | 19 / 1.53                  | 1.2                         | 1.8                  | 28.0             | 0.0043               | 110                                    | 1530  |              |
| 4           | 0.5                        | 1 / 0.80                    | 0.6                  | 0.9              | 7.8                  | 0.0146                                 | 7   | 65           |
|             | 1                          | 1 / 1.13                    | 0.6                  | 0.9              | 8.6                  | 0.0115                                 | 10  | 100          |
|             | 1                          | 7 / 0.43                    | 0.6                  | 0.9              | 9.0                  | 0.0110                                 | 10  | 100          |
|             | 1.5                        | 1 / 1.38                    | 0.6                  | 1.2              | 10.0                 | 0.0100                                 | 13  | 130          |
|             | 1.5                        | 7 / 0.53                    | 0.6                  | 1.2              | 10.5                 | 0.0094                                 | 13  | 130          |
|             | 2.5                        | 1 / 1.78                    | 0.7                  | 1.2              | 11.5                 | 0.0092                                 | 18  | 190          |
|             | 2.5                        | 7 / 0.67                    | 0.7                  | 1.2              | 12.5                 | 0.0084                                 | 18  | 190          |
|             | 4                          | 1 / 2.25                    | 0.8                  | 1.2              | 13.5                 | 0.0086                                 | 25  | 290          |
|             | 4                          | 7 / 0.85                    | 0.8                  | 1.2              | 14.0                 | 0.0078                                 | 25  | 290          |
|             | 6                          | 7 / 1.04                    | 0.8                  | 1.2              | 15.5                 | 0.0066                                 | 33  | 410          |
|             | 10                         | 7 / 1.35                    | 0.9                  | 1.4              | 19.0                 | 0.0059                                 | 45  | 640          |
|             | 16                         | 7 / 1.70                    | 1.0v                 | 1.4              | 22.0                 | 0.0053                                 | 60  | 940          |
|             | 25                         | 7 / 2.14                    | 1.2                  | 1.8              | 27.5                 | 0.0051                                 | 81  | 1490         |
| 35          | 19 / 1.53                  | 1.2                         | 1.8                  | 30.5             | 0.0043               | 99                                     | 1950  |              |

