

# FLEXIBLE CONTROL | Multi-Core (Cu/PVC-FR/PVC)

### APPLICATION

Residential infrastructure    Commercial infrastructure    Control panels    Cabinets  
Switchgears    Stationary appliances

### CONSTRUCTION

**Conductor:** Flexible, Plain annealed Copper, Class 5 to IEC 60228  
**Insulation:** PVC, PVC/D (With FR property) to IEC 60227-1  
**Binder (Optional):** Polyester or Non-woven tape  
**Sheath:** PVC, ST-9 to IEC 60227-1  
**Option:** PVC type ST1, PVC type ST2 to IS 5831/FR type/FRLS type

### VOLTAGE GRADE

**Uo/U :** 300/500 V  
**Test Voltage:** 2.0 kV

### OPERATING TEMP.

- 20°C to +70°C  
 Max Short Circuit: 160°C

### MIN. BENDING RADIUS

Approx. 7.5x Cable Diameter

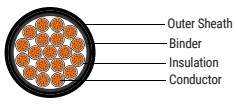
### STANDARD

IEC 60227-7

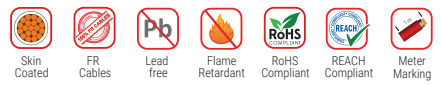
### COLOR

**Insulated Core:** ① Black with number print  
**Sheath:** ② (Black or Blue or other colors available on request)

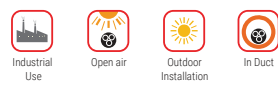
\*REACH | RoHS | CE



### CHARACTERISTICS



### INSTALLATION CONDITION



### CABLE DESIGN PARAMETER

| PHYSICAL DATA & ELECTRICAL DATA                            |                                   |                                 |                             |                          |             | ELECTRICAL DATA         |   |   |
|--|-----------------------------------|---------------------------------|-----------------------------|--------------------------|-------------|-------------------------|---|---|
| Number of core & Nominal cross sectional area of conductor | No. of strands & diameter of wire | Nominal thickness of insulation | Nominal thickness of sheath | Approx. Overall diameter |             | Approx. weight of cable | Max. D.C resistance of conductor at 20 °C | Current Carrying Capacity in Air at 35 °C ambient temp. |
|  |                                   |                                 |                             | Lower limit              | Upper limit |                         |   |   |
| Core x mm <sup>2</sup>                                     | no./mm                            | mm                              | mm                          | mm                       | mm          | kg/km                   | Ω/km                                      | amp   |
| 2 x 1.5 rm   | 30/0.25                           | 0.7                             | 0.8                         | 6.8                      | 8.6         | 73                      | 13.3                                      | 17  |
| 3 x 1.5 rm   | 30/0.25                           | 0.7                             | 0.9                         | 7.4                      | 9.4         | 97                      | 13.3                                      | 17  |
| 5 x 1.5 rm   | 30/0.25                           | 0.7                             | 1.0                         | 9.1                      | 11.4        | 160                     | 13.3                                      | 13  |
| 7 x 1.5 rm   | 30/0.25                           | 0.7                             | 1.2                         | 11.3                     | 14.1        | 205                     | 13.3                                      | 11  |
| 12 x 1.5 rm  | 30/0.25                           | 0.7                             | 1.3                         | 13.8                     | 17.0        | 352                     | 13.3                                      | 9   |
| 18 x 1.5 rm  | 30/0.25                           | 0.7                             | 1.5                         | 16.5                     | 20.3        | 520                     | 13.3                                      | 8   |
| 36 x 1.5 rm  | 30/0.25                           | 0.7                             | 2.0                         | 23.0                     | 28.2        | 1036                    | 13.3                                      | 6   |
| 48 x 1.5 rm  | 30/0.25                           | 0.7                             | 2.2                         | 26.2                     | 32.5        | 1370                    | 13.3                                      | 6   |
| 2 x 2.5 rm   | 50/0.25                           | 0.8                             | 0.9                         | 8.2                      | 10.3        | 102                     | 7.98                                      | 24  |
| 3 x 2.5 rm   | 50/0.25                           | 0.8                             | 1.0                         | 9.0                      | 11.2        | 148                     | 7.98                                      | 24  |
| 5 x 2.5 rm   | 50/0.25                           | 0.8                             | 1.1                         | 11.0                     | 13.7        | 244                     | 7.98                                      | 18  |
| 7 x 2.5 rm   | 50/0.25                           | 0.8                             | 1.3                         | 13.6                     | 16.8        | 315                     | 7.98                                      | 16  |
| 12 x 2.5 rm  | 50/0.25                           | 0.8                             | 1.5                         | 16.8                     | 20.6        | 550                     | 7.98                                      | 13  |
| 18 x 2.5 rm  | 50/0.25                           | 0.8                             | 1.8                         | 20.2                     | 24.8        | 820                     | 7.98                                      | 11  |
| 36 x 2.5 rm  | 50/0.25                           | 0.8                             | 2.3                         | 28.0                     | 34.2        | 1630                    | 7.98                                      | 8   |
| 48 x 2.5 rm  | 50/0.25                           | 0.8                             | 2.4                         | 32.1                     | 39.1        | 2135                    | 7.98                                      | 8   |