

# PVC Insulated Control Cable



Cu / PVC / PET / Cu Tape (≥15% overlap) / PVC

| APPLICATION                                                                                                                                                                                                                                                                                                                                              | ADVANTAGES                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>PVC insulated control cables are widely used for signal transmission and equipment control in industrial plants, power systems, building services, and specialized industrial and mining applications. They offer good resistance to oils and mild corrosive media, flame-retardant self-extinguishing performance, and cost-effective operation.</p> | <div>■ <b>Stable Insulation:</b> PVC insulation · 3 kV / 5 min withstand voltage</div> <div>■ <b>Flame Retardant &amp; Self-Extinguishing:</b> IEC 60332-1 compliant</div>                                                                                                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                          | ■ <b>Environmental Resistance:</b> Acid/alkali · Oil · Moisture · Mildew                                                                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                          | Core Performance: Cost-Effective · Short Lead Time · Low Maintenance<br>Mature PVC processing provides a clear cost advantage. GB/T 9330 compliant, with an established supply chain and short lead times. Service life can reach 25 years under normal operating conditions, with low maintenance requirements and manageable life-cycle costs. |

| CABLE CONSTRUCTION |                                       | TECHNICAL CHARACTERISTICS |                            | ELECTRICAL CHARACTERISTICS |              |
|--------------------|---------------------------------------|---------------------------|----------------------------|----------------------------|--------------|
| Conductor          | Oxygen-Free Copper Conductor          | Operating Temperature     | -20°C to +70°C             | Rated Voltage              | 450/750 V    |
| Insulation         | Polyvinyl Chloride (PVC)              | Flame Retardancy          | Compliant with IEC 60332-1 | Test Voltage               | 3 kV / 5 min |
| Wrapping Tape      | Polyester Tape                        | Flame Test                | IEC 60332-1                | Minimum Bending Radius     | 6–12 × OD    |
| Copper Tape Shield | Oxygen-Free Copper Tape, overlap ≥15% | Standard                  | GB/T 9330-2020             | Insulation Resistance      | ≥5 MΩ·km     |
| Sheath             | Polyvinyl Chloride (PVC)              |                           |                            |                            |              |
| Sheath Color       | Black                                 |                           |                            |                            |              |

## DIMENSIONS

| Cross Section<br>n × mm² | Nominal Insulation Thickness<br>mm | Nominal Sheath Thickness<br>mm | Approx. Overall Diameter<br>mm | Weight<br>kg/km |
|--------------------------|------------------------------------|--------------------------------|--------------------------------|-----------------|
| 2×1                      | 0.6                                | 1.2                            | 8.0                            | 79              |
| 3×1                      | 0.6                                | 1.2                            | 8.4                            | 96              |
| 4×1                      | 0.6                                | 1.2                            | 9.1                            | 115             |
| 5×1                      | 0.6                                | 1.2                            | 9.6                            | 135             |
| 2×1.5                    | 0.7                                | 1.2                            | 8.9                            | 101             |
| 3×1.5                    | 0.7                                | 1.2                            | 9.3                            | 124             |
| 4×1.5                    | 0.7                                | 1.2                            | 10.1                           | 151             |
| 5×1.5                    | 0.7                                | 1.2                            | 10.9                           | 178             |
| 7×1.5                    | 0.7                                | 1.2                            | 11.7                           | 225             |
| 12×1.5                   | 0.7                                | 1.5                            | 15.7                           | 384             |
| 14×1.5                   | 0.7                                | 1.5                            | 16.4                           | 432             |
| 19×1.5                   | 0.7                                | 1.5                            | 18.1                           | 551             |
| 24×1.5                   | 0.7                                | 1.7                            | 21.3                           | 716             |
| 37×1.5                   | 0.7                                | 1.7                            | 24.2                           | 1011            |

|        |     |     |      |      |
|--------|-----|-----|------|------|
| 2×2.5  | 0.8 | 1.2 | 10.1 | 135  |
| 3×2.5  | 0.8 | 1.2 | 10.6 | 170  |
| 4×2.5  | 0.8 | 1.2 | 11.5 | 209  |
| 5×2.5  | 0.8 | 1.2 | 12.1 | 250  |
| 7×2.5  | 0.8 | 1.5 | 14.1 | 339  |
| 12×2.5 | 0.8 | 1.5 | 18.1 | 548  |
| 14×2.5 | 0.8 | 1.5 | 19.0 | 620  |
| 19×2.5 | 0.8 | 1.7 | 21.4 | 819  |
| 24×2.5 | 0.8 | 1.7 | 24.9 | 1037 |
| 37×2.5 | 0.8 | 1.7 | 28.3 | 1485 |



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