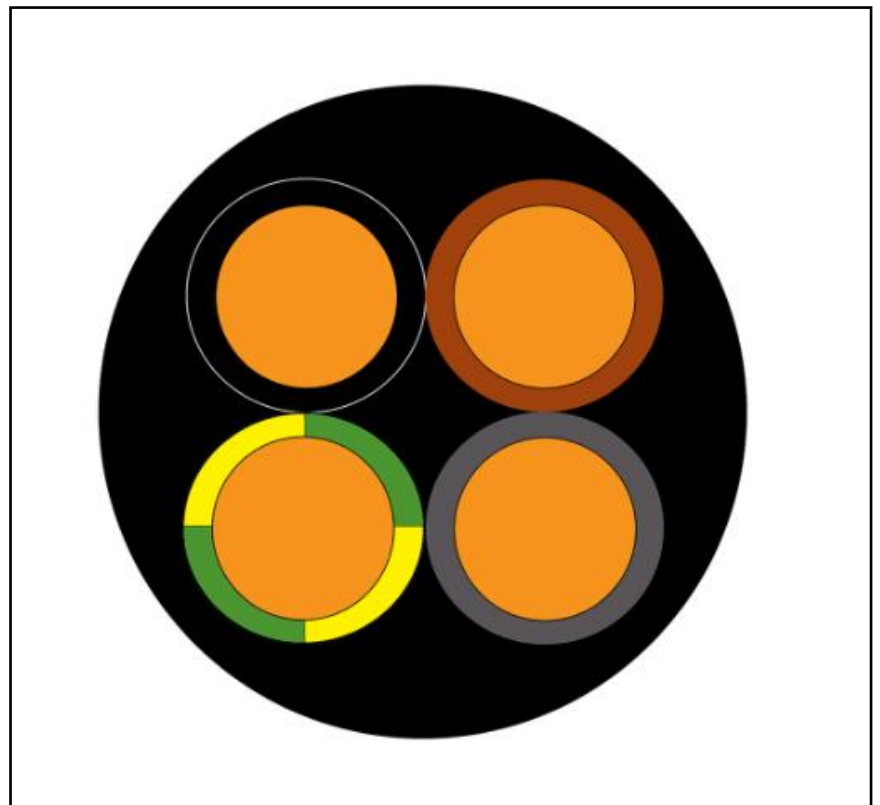


## FEATURES

- Flame retardant to IEC 60332-1 & EN 50265-2-1
- Mechanically tough, durable and resistant to abrasion
- UV and weather resistant
- Lightweight
- Good electrical and insulation properties
- Corrosion resistant and rustproof
- Cost effective due to long cable lifespan

## RS PRO 4 Core 6 mm<sup>2</sup> Power Cable, Black Polyvinyl Chloride PVC Sheath 50m, 1 kV, 600 V, NYY-J

RS Stock No.: 902-8316



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

## Product Description

From RS PRO a high-quality NYY-J mains power cable also known as a power control cable with a PVC outer sheath and a nominal voltage rating of 600/1000V. This durable and cost-efficient mains cable is used for the electrical energy supply in fixed wiring installations both indoors and outdoors. The cable can be directly buried under the ground, in brickwork, in concrete as well as submerged under water for a limited period of time.

## General Specifications

|                        |  |
|------------------------|--|
| <b>Type</b>            | NYY-J  |
| <b>Sheath Material</b> | Polyvinyl Chloride PVC   |
| <b>Sheath Colour</b>   | Black  |
| <b>Filler</b>          | PVC Compound   |
| <b>Fire Behaviour</b>  | Flame Retardant  |
| <b>Applications</b>    | Fixed indoor and outdoor applications, Transformer stations, Electric power plants, Industrial plants, Metropolitan networks, Connection of signalling devices in industry and traffic lights, |

## Electrical Specifications

|                             |             |
|-----------------------------|-------------|
| <b>Voltage Rating</b>       | 1 kV, 600 V |
| <b>Insulation Material</b>  | PVC         |
| <b>Conductor Resistance</b> | 3.08 Ω/km   |
| <b>Voltage Test</b>         | 3,5 Kv      |

## Mechanical Specifications

|                              |                   |
|------------------------------|-------------------|
| <b>Length</b>                | 50m               |
| <b>Cross Sectional Area</b>  | 6 mm <sup>2</sup> |
| <b>Number of Cores</b>       | 4                 |
| <b>Size of Strands</b>       | 2.69mm            |
| <b>Conductor Strand Type</b> | Solid             |

## Operation Environment Specifications

|                                      |               |
|--------------------------------------|---------------|
| <b>Operating Temperature Range</b>   | -5°C to +70°C |
| <b>Minimum Operating Temperature</b> | -5°C          |
| <b>Maximum Operating Temperature</b> | +70°C         |

## Approvals

|                                  |   |
|----------------------------------|---|
| <b>Compliance/Certifications</b> | RoHS Compliant  |
| <b>Standards Met</b>             | EN 50265-2-1, IEC 60228 Class 1, IEC 60332-1, IEC 60502-1 |



| Size (mm <sup>2</sup> ) | Copper dimension (mm) | Nominal insulation thickness (mm) | Min insulation thickness (mm) | Sheath thickness (mm) | Min. Sheath thickness (mm) | Max. resistance at 20°C (Ω/km) |
|-------------------------|-----------------------|-----------------------------------|-------------------------------|-----------------------|----------------------------|--------------------------------|
| 4x1,5                   | 1,365                 | 0,80                              | 0,62                          | 1,80                  | 1,43                       | 12,10                          |
| 4x2,5                   | 1,75                  | 0,80                              | 0,62                          | 1,80                  | 1,43                       | 7,41                           |
| 4x4                     | 2,19                  | 1,00                              | 0,80                          | 1,80                  | 1,43                       | 4,61                           |
| 4x6                     | 2,69                  | 1,00                              | 0,80                          | 1,80                  | 1,43                       | 3,08                           |
| 5x1,5                   | 1,365                 | 0,80                              | 0,62                          | 1,80                  | 1,43                       | 12,10                          |
| 5x2,5                   | 1,75                  | 0,80                              | 0,62                          | 1,80                  | 1,43                       | 7,41                           |
| 5x4                     | 2,19                  | 1,00                              | 0,80                          | 1,80                  | 1,43                       | 4,61                           |
| 5x6                     | 2,69                  | 1,00                              | 0,80                          | 1,80                  | 1,43                       | 3,08                           |
| 3x10                    | 7/1,34                | 1,00                              | 0,80                          | 1,80                  | 1,43                       | 1,83                           |
| 3x16                    | 7/1,69                | 1,00                              | 0,80                          | 1,80                  | 1,43                       | 1,15                           |
| 4x10                    | 7/1,34                | 1,00                              | 0,80                          | 1,80                  | 1,43                       | 1,83                           |
| 4x16                    | 7/1,69                | 1,00                              | 0,80                          | 1,80                  | 1,43                       | 1,15                           |
| 5x10                    | 7/1,34                | 1,00                              | 0,80                          | 1,80                  | 1,43                       | 1,83                           |
| 5x16                    | 7/1,69                | 1,00                              | 0,80                          | 1,80                  | 1,43                       | 1,15                           |

| Size (mm <sup>2</sup> ) | Copper dimension (mm) | Nominal insulation thickness (mm) | Min insulation thickness (mm) | Sheath thickness (mm) | Min. Sheath thickness (mm) | Max. resistance at 20°C (Ω/km) |
|-------------------------|-----------------------|-----------------------------------|-------------------------------|-----------------------|----------------------------|--------------------------------|
| 3x1,5                   | 1,365                 | 0,80                              | 0,62                          | 1,80                  | 1,43                       | 12,10                          |
| 3x2,5                   | 1,75                  | 0,80                              | 0,62                          | 1,80                  | 1,43                       | 7,41                           |
| 3x4                     | 2,19                  | 1,00                              | 0,80                          | 1,80                  | 1,43                       | 7,41                           |
| 3x6                     | 2,69                  | 1,00                              | 0,80                          | 1,80                  | 1,43                       | 3,08                           |