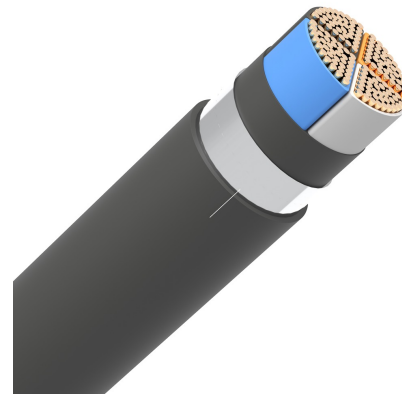


# IEC 60502-1

Power cable for distribution, infrastructure and industrial supply

IEC 60502-1 is prepared for preliminary product selection and quotation review. This product is used for power distribution and project supply where voltage grade, conductor size, insulation system and installation condition determine the cable selection. Parameters should be reviewed against the selected standard and project specification.



## VOLTAGE

0.6/1kV, 1.2kV

## CONDUCTOR

Copper conductor route, confirmed by technical table

## TYPICAL USE

Power distribution networks

## STANDARDS

IEC 60502-1; IEC 60228; BS 5467

## DATA SCOPE

3 technical table(s) included for preliminary selection

## SELECTION NOTE

Confirm voltage, conductor, armour, sheath and installation route.

**For quotation review, provide cable type, standard, size, quantity and project destination.**

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## Application & Selection Summary

### Typical applications

- Power distribution networks
- industrial plants
- infrastructure projects
- underground or indoor power supply routes
- renewable energy and utility projects requiring project-based cable review.

### Selection logic

- Confirm voltage grade, conductor material, armour requirement, insulation/sheath material, installation environment and applicable standard before quotation or production confirmation.

## Construction Overview

| Item          | Website-ready content                                                                                                                      |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Product route | Copper or aluminum conductor with insulation, bedding, optional armour and outer sheath according to product type and project requirement. |
| Voltage       | 0.6/1kV, 1.2kV                                                                                                                             |
| Conductor     | Copper conductor route, confirmed by technical table                                                                                       |
| Standards     | IEC 60502-1; IEC 60228; BS 5467                                                                                                            |
| Confirmation  | Final structure, dimensions and packing should follow selected standard, quotation review and order specification.                         |

## Readable Data Index

| Data route                                    | Size / rating range | Construction | Diameter / OD | Resistance / weight / rating |
|-----------------------------------------------|---------------------|--------------|---------------|------------------------------|
| 4 Core - Cu/PVC/PVC Unarmoured (IEC 60502-1)  | 4 x 16 - 4 x 240    | See table    | 22.5 - 70.5   | 1050 - 13150                 |
| 4 Core - Cu/XLPE/PVC Unarmoured (IEC 60502-1) | 4 x 16 - 4 x 240    | See table    | 20.5 - 61.5   | 920 - 11850                  |
| 4 Core - BS 5467 Armoured Cable (0.6/1kV)     | 4 x 1.5 - 4 x 400   | See table    | 13.2 - 78.5   | 360 - 21550                  |

Data boundary: these tables support website launch, quotation review and preliminary product selection. For project execution, final dimensions, electrical performance, packing and compliance documents should be confirmed against the selected project standard and order specification.

## 4 Core - Cu/PVC/PVC Unarmoured (IEC 60502-1)

Reference table for preliminary selection and quotation review.

| Area (mm²)                                   | Nom. PVC Insulation (mm) | Nom. Outer Sheath (mm) | Approx OD (mm) | Weight (kg/km) |
|----------------------------------------------|--------------------------|------------------------|----------------|----------------|
| 4 Core - Cu/PVC/PVC Unarmoured (IEC 60502-1) |                          |                        |                |                |
| 4 x 16                                       | 1.0                      | 1.8                    | 22.5           | 1050           |
| 4 x 25                                       | 1.2                      | 1.8                    | 26.8           | 1580           |
| 4 x 35                                       | 1.2                      | 1.8                    | 29.5           | 2050           |
| 4 x 50                                       | 1.4                      | 1.8                    | 34.5           | 2750           |
| 4 x 70                                       | 1.4                      | 2.0                    | 39.5           | 3850           |
| 4 x 95                                       | 1.6                      | 2.1                    | 45.5           | 5250           |
| 4 x 120                                      | 1.6                      | 2.3                    | 50.5           | 6550           |
| 4 x 150                                      | 1.8                      | 2.4                    | 55.5           | 8050           |
| 4 x 185                                      | 2.0                      | 2.6                    | 62.2           | 10150          |
| 4 x 240                                      | 2.2                      | 2.8                    | 70.5           | 13150          |

## 4 Core - Cu/XLPE/PVC Unarmoured (IEC 60502-1)

Reference table for preliminary selection and quotation review.

| Area (mm <sup>2</sup> )                       | Nom. XLPE Insulation (mm) | Nom. Outer Sheath (mm) | Approx OD (mm) | Weight (kg/km) |
|-----------------------------------------------|---------------------------|------------------------|----------------|----------------|
| 4 Core - Cu/XLPE/PVC Unarmoured (IEC 60502-1) |                           |                        |                |                |
| 4 x 16                                        | 0.7                       | 1.8                    | 20.5           | 920            |
| 4 x 25                                        | 0.9                       | 1.8                    | 24.5           | 1450           |
| 4 x 35                                        | 0.9                       | 1.8                    | 26.5           | 1850           |
| 4 x 50                                        | 1.0                       | 1.8                    | 29.8           | 2450           |
| 4 x 70                                        | 1.1                       | 2.0                    | 34.5           | 3450           |
| 4 x 95                                        | 1.1                       | 2.1                    | 39.5           | 4750           |
| 4 x 120                                       | 1.2                       | 2.2                    | 44.5           | 5950           |
| 4 x 150                                       | 1.4                       | 2.3                    | 48.5           | 7350           |
| 4 x 185                                       | 1.6                       | 2.5                    | 54.2           | 9150           |
| 4 x 240                                       | 1.7                       | 2.7                    | 61.5           | 11850          |

## 4 Core - BS 5467 Armoured Cable (0.6/1kV)

Reference table for preliminary selection and quotation review.

| Area (mm²)                                | Insulation Thick. (mm) | SWA Wire Dia. (mm) | Approx OD (mm) | Weight (kg/km) |
|-------------------------------------------|------------------------|--------------------|----------------|----------------|
| 4 Core - BS 5467 Armoured Cable (0.6/1kV) |                        |                    |                |                |
| 4 x 1.5                                   | 0.7                    | 0.9                | 13.2           | 360            |
| 4 x 2.5                                   | 0.7                    | 0.9                | 14.5           | 420            |
| 4 x 4                                     | 0.7                    | 0.9                | 15.5           | 520            |
| 4 x 6                                     | 0.7                    | 1.25               | 17.2           | 720            |
| 4 x 10                                    | 0.7                    | 1.25               | 19.5           | 950            |
| 4 x 16                                    | 0.7                    | 1.25               | 21.5           | 1150           |
| 4 x 25                                    | 0.9                    | 1.6                | 27.2           | 1850           |
| 4 x 35                                    | 0.9                    | 1.6                | 29.5           | 2250           |
| 4 x 50                                    | 1.0                    | 1.6                | 31.8           | 2750           |
| 4 x 70                                    | 1.1                    | 2.0                | 38.5           | 4200           |
| 4 x 95                                    | 1.1                    | 2.0                | 42.5           | 5450           |
| 4 x 120                                   | 1.2                    | 2.5                | 48.2           | 7250           |
| 4 x 150                                   | 1.4                    | 2.5                | 52.5           | 8750           |
| 4 x 185                                   | 1.6                    | 2.5                | 57.5           | 10550          |
| 4 x 240                                   | 1.7                    | 2.5                | 64.8           | 13550          |
| 4 x 300                                   | 1.8                    | 2.5                | 70.5           | 16550          |
| 4 x 400                                   | 2.0                    | 3.15               | 78.5           | 21550          |