

DIN VDE 0276

Power cable for distribution, infrastructure and industrial supply

DIN VDE 0276 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, 6/10kV, 18/30kV

CONDUCTOR

Copper or aluminum conductor route, according to product standard

TYPICAL USE

Power distribution networks

STANDARDS

VDE 0276-603; VDE 0276-620; IEC 60502-1; IEC 60502-2

DATA SCOPE

2 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, 6/10kV, 18/30kV
Conductor	Copper or aluminum conductor route, according to product standard
Standards	VDE 0276-603; VDE 0276-620; IEC 60502-1; IEC 60502-2
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 (NYY)	4 x 1.5 RE - 4 x 300 SM	See table	11.5 - 64.0	220 - 15200
Single Core - Cu/XLPE/CWS/PVC (N2XSY)	1 x 35 / 16 - 1 x 500 / 35	See table	24.0 - 46.0	850 - 6000

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 (NYY)

Reference table for preliminary selection and quotation review.

Area (mm²) & Shape	Insulation Thick. (mm)	Outer Sheath Thick. (mm)	Approx OD (mm)	Weight (kg/km)
4 Core - Cu/PVC/PVC Unarmoured (NYY)				
4 x 1.5 RE	0.8	1.8	11.5	220
4 x 2.5 RE	0.8	1.8	12.5	280
4 x 4 RE	1.0	1.8	14.5	380
4 x 6 RE	1.0	1.8	15.5	480
4 x 10 RE	1.0	1.8	17.5	700
4 x 16 RM	1.0	1.8	21.5	1050
4 x 25 SM	1.2	1.8	25.5	1550
4 x 35 SM	1.2	1.8	27.5	1950
4 x 50 SM	1.4	1.8	31.0	2600
4 x 70 SM	1.4	2.0	35.0	3600
4 x 95 SM	1.6	2.1	40.0	4900
4 x 120 SM	1.6	2.3	43.0	6100
4 x 150 SM	1.8	2.4	47.0	7600
rip4t xi o18n5 SM	2.0	2.6	52.0	9400
4 x 240 SM	2.2	2.8	58.0	12300
4 x 300 SM	2.4	3.0	64.0	15200

Single Core - Cu/XLPE/CWS/PVC (N2XSY)

Reference table for preliminary selection and quotation review.

Area (mm²) / CWS Area	Insulation Thick. (mm)	Cu Wire Screen (mm²)	Approx OD (mm)	Weight (kg/km)
Single Core - Cu/XLPE/CWS/PVC (N2XSY)				
1 x 35 / 16	3.4	16	24.0	850
1 x 50 / 16	3.4	16	25.0	1000
1 x 70 / 16	3.4	16	27.0	1250
1 x 95 / 16	3.4	16	29.0	1550
1 x 120 / 16	3.4	16	30.0	1800
1 x 150 / 25	3.4	25	32.0	2200
1 x 185 / 25	3.4	25	34.0	2600
1 x 240 / 25	3.4	25	36.0	3200
1 x 300 / 25	3.4	25	39.0	3900
1 x 400 / 35	3.4	35	43.0	4900
1 x 500 / 35	3.4	35	46.0	6000