



Technical data

- Power and control cable to DIN VDE 0276 part 603, HD 603 S1 and IEC 60502
- **Temperature range**
flexing -5 °C to +50 °C
fixed installation -40 °C to +70 °C
- Permissible **operating temperature** at conductor +70 °C
- Permissible **short circuit temperature** +160 °C (short circuit duration 5 sec.)
- **Nominal voltage** U_0/U 0,6/1 kV
- **Test voltage** 4 kV
- Max. permissible **tensile stress** with cable grip for Cu-conductor = 50 N/mm²
- **Minimum bending radius**
for single core approx. 15x cable ø
for multi core approx. 12x cable ø
- **Power ratings table**
see Technical Informations
- **Caloric load values**
see Technical Informations

Cable structure

- Plain copper conductors, as per VDE 0295 cl. 1 od. cl. 2, IEC 60228, BS 6360 cl. 1 and HD 383, solid or stranded versions, conductor types
10-16 mm² round, solid cores (re) alt.
10-25 mm², stranded conductor (rm),
35-240 mm², sector shaped conductor, stranded (sm)
- PVC core insulation, DIV4 to HD 603.1
- Colour coded to DIN VDE 0293-308 and HD 186
- Cores stranded concentrically
- Filling compound
- Concentric conductor (Ceander), inner layer of corrugated copper wires, outer layer with copper tape
- PVC outer sheath, DMV5 to HD 603.1
- Sheath colour black

Properties

- PVC self-extinguishing and flame retardant according to VDE 0482-332-1-2, DIN EN 60332-1-2/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers
- **Highest permissible voltage**
- Direct current systems 1,8 kV
- Alternating current systems, single-phase systems 1,4 kV
Both conductors insulated, single-phase systems 0,7 kV
One conductor earthed, three-phase systems 1,2 kV
With concentric conductor and a cross-section of 240 mm² and above 3,6 kV

Note

- At 25 mm² = round cables are more compact thus smaller ø.
- Available with outer sheath in alternative colours on request.
- re = round solid core;
rm = stranded core;
sm = sectional core.

Application

Power cables for energy supply are used for industry and distribution boards, power stations, house connecting boxes and street lighting as well as control cable for the transmission of control impulses and test datas. Overall, where increased electrical and also mechanical protection are required. Those cables are installed in open air, in underground, in water, indoors and in cable ducts. The concentric conductor (C) is allowed to use as PE-, PEN-conductor or as screen.

☑ The product is conformed with the EC Low-Voltage Directive 2006/95/EG.

Part no.	No. cores x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWC-No.
32260	2 x 10 re / 10	19,0	312,0	650,0	8
32261	2 x 16 re / 16	21,0	489,0	850,0	6
32262	2 x 25 rm / 25	24,0	763,0	1210,0	4
32263	3 x 10 re / 10	19,5	408,0	730,0	8
32264	3 x 16 re / 16	22,0	643,0	1000,0	6
32265	3 x 25 rm / 16	26,0	902,0	1550,0	4
32274	3 x 25 rm / 25	26,0	1003,0	1600,0	4
32275	3 x 35 sm / 35	27,5	1402,0	1850,0	2
32266	3 x 35 sm / 16	27,0	1190,0	1750,0	2
32267	3 x 50 sm / 25	29,5	1723,0	2250,0	1
32276	3 x 50 sm / 50	29,5	2000,0	2450,0	1
32268	3 x 70 sm / 35	33,0	2410,0	2950,0	2/0
32277	3 x 70 sm / 70	34,0	2796,0	3350,0	2/0
32269	3 x 95 sm / 50	38,0	3296,0	4100,0	3/0
32278	3 x 95 sm / 95	38,5	3791,0	4550,0	3/0
32270	3 x 120 sm / 70	41,0	4236,0	5050,0	4/0
32279	3 x 120 sm / 120	42,0	4786,0	5550,0	4/0
32271	3 x 150 sm / 70	45,0	5100,0	6000,0	300 kcmil
32280	3 x 150 sm / 150	46,0	5970,0	6900,0	300 kcmil
32272	3 x 185 sm / 95	50,0	6383,0	7550,0	350 kcmil
32281	3 x 185 sm / 185	51,0	7363,0	8500,0	350 kcmil
32273	3 x 240 sm / 120	57,0	8242,0	9950,0	500 kcmil
32282	4 x 10 re / 10	20,5	504,0	890,0	8
32283	4 x 16 re / 16	23,5	796,0	1250,0	6

Continuation ▶

Part no.	No. cores x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
32284	4 x 25 rm / 16	28,0	1142,0	1800,0	4
32285	4 x 35 sm / 16	29,0	1526,0	2050,0	2
32286	4 x 50 sm / 25	33,0	2203,0	2700,0	1
32287	4 x 70 sm / 35	37,0	3082,0	3750,0	2/0
32288	4 x 95 sm / 50	43,5	4208,0	5000,0	3/0
32289	4 x 120 sm / 70	47,0	5388,0	6350,0	4/0
32290	4 x 150 sm / 70	51,0	6540,0	7650,0	300 kcmil
32291	4 x 185 sm / 95	56,0	8159,0	9350,0	350 kcmil
32292	4 x 240 sm / 120	62,5	10546,0	11600,0	500 kcmil

Dimensions and specifications may be changed without prior notice. (RQ01)

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