



Construction:

- Conductor : annealed flexible copper (red or tinned).
- Insulation : special silicone rubber EI2.
- Outer sheath : special silicone, halogen free, flame retardant.

Technical data and tests:

- Rated voltage : 450/750 V.
- Test voltage (AC 50 Hz) : 2000 V.
- Breakdown voltage : 5000 V.
- Operating temperatures : -60° C/+200° C.
- Peak temperature : +250° C.
- Insulation resistance : min. > 200 G Ω x cm.
- Bending radius : 12-18 D for <7 cores.

Standards:

- Cable : DIN VDE 0250 Teil 816 and HD 22.15 S1.
- Conductor construction : class 5 DIN VDE 0295 and IEC 60228.
- Insulation : VDE 0250 Teil 816 and HD 22.3 S3.
- Outer sheath : halogen free, flame retardant, FE 180, VDE 0250 Teil 816 and HD 22.15 S1.
- EC directive : ECD 73/23/EEC (low voltage directive).
- Cable marking : DIN VDE 0293 (and/or customer requirements).
- Flame retardance : IEC 60332-1, IEC 60331 and VDE 0472 part 814.
- Fire behaviour : NF C 32-070, VDE 0472 part 804 and IEC 60332-1.
- Low smoke : ICEC 1034 (NF C 32-073).
- Halogen free : DIN VDE 472 part 815 - IEC 60754-1, CEI 20.37/1, IEC 60754-2 and DIN VDE 0472 part 813.

Applications:

These cables are used in machineries, appliances, ovens and tools in indoor and outdoor application areas. These cables can be used under varying conditions like high temperature, excessive movements, and flame resistance even under high mechanical and chemical influences. Also, they can be used in open, closed, dry or humid spaces, where penetration of oil, petroleum, acids, chemical agents, and also ozone and flame may have to be considered. These properties depend on the subgrades of the cables.

Some examples of the application areas are: domestic electrical heating appliances, rotating machines, lighting, industrial wiring in hot environments, urban lighting, bakery machines, electrical motor engineering, shipbuilding and aircraft construction, in cooking plants and foundries, in cement, glass and ceramic factories and in many other areas.



**DIMENSIONS**

Nominal cross section mm ²	Conductor number & diameter (approx.) mm	Linear resistance at 20° C Ω / km	Outer diameter Min. – Max. (approx) mm	Copper factor kg/km	Approx. cable weight kg / km
2x0,50	16 x 0,19	39,00	6,00 - 6,10	9,00	49,24
3G0,50	16 x 0,19	39,00	6,35 - 6,45	14,00	57,86
4G0,50	16 x 0,19	39,00	7,60 - 7,70	19,00	81,48
2x0,75	24 x 0,19	26,00	6,60 – 6,70	14,00	61,00
3G0,75	24 x 0,19	26,00	7,00 – 7,10	22,00	73,00
4G0,75	24 x 0,19	26,00	8,40 – 8,50	29,00	103,00
2x1,00	32 x 0,19	19,50	6,80 – 6,90	19,00	68,90
3G1,00	32 x 0,19	19,50	7,00 – 7,10	29,00	83,30
4G1,00	32 x 0,19	19,50	8,65 – 8,75	38,00	116,80
2x1,50	30 x 0,24	13,30	7,40 – 7,50	29,00	85,00
3G1,50	30 x 0,24	13,30	8,20 – 8,30	43,00	109,00
4G1,50	30 x 0,24	13,30	9,50 – 9,60	58,00	147,00
2x2,50	50 x 0,24	7,98	9,20 – 9,30	48,00	135,00
3G2,50	50 x 0,24	7,98	9,70 – 9,80	72,00	164,00
4G2,50	50 x 0,24	7,98	11,90 – 12,00	96,00	237,00
5G2,50	50 x 0,24	7,98	13,45 – 13,55	120,00	297,00
2x4,00	56 x 0,29	4,95	11,00 – 11,10	77,00	199,00
3G4,00	56 x 0,29	4,95	11,65 – 11,75	115,00	245,00
4G4,00	56 x 0,29	4,95	14,00 – 14,10	154,00	344,00
3G6,00	84 x 0,29	3,30	14,20 – 14,30	173,00	353,00
4G6,00	84 x 0,29	3,30	17,20 – 17,30	230,00	501,00
5G6,00	84 x 0,29	3,30	18,50 – 18,60	288,00	595,00
4G10,00	80 x 0,40	1,91	22,35 – 22,45	384,00	871,00
4G16,00	128 x 0,40	1,21	26,40 – 26,50	616,00	1280,00