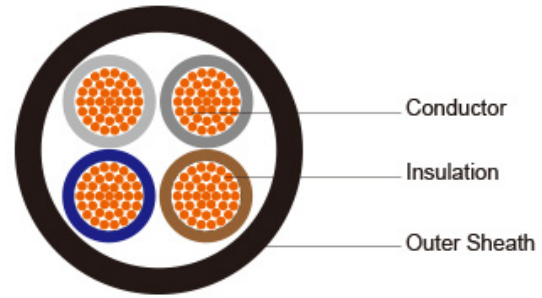


German Standard Industrial Cables A07RN-F



Application and Description

These cables are designed to provide high flexibility and have the capacity to withstand ozone, weather and oils/greases, mainly used for connecting of power tools, mobile units and machines for medium mechanical requirements in dry and humid rooms, for outdoor use, in explosive areas, in commercial and agricultural plants and on Cable Construction lots. Also suitable for fixed laying e.g. on-wall in provisional buildings, for directly laying on modules of hoisting devices, machinery etc. Max operating voltage in single or three phase system is Uo/U 476/825 volts. In a direct current system max operating voltage is Uo/U 619/1238 volts. If in a fixed or protected installation Uo/U is 600/1000 volts.

Standard and Approval

CEI 20-19
HD 22.4
IEC 60245-4
CE low voltage directive 73/23/EEC & 93/68/EEC.
ROHS compliant

Cable Construction

Fine bare copper strands
Strands to VDE-0295 Class-5, IEC 60228 Class-5
Rubber core insulation EI4 to VDE-0282 Part-1
3,4,& 5 cores cables - NO green/yellow ground
Color code VDE-0293-308
Green-yellow grounding, 3 conductors and above
Polychloroprene rubber (neoprene) jacket EM2

Technical Characteristics

WORKING VOLTAGE: 450/750 volts
TEST VOLTAGE: 2500 volts
FLEXING BENDING RADIUS: 7.5 x Ø
FIXED BENDING RADIUS: 4.0 x Ø
FLEXING TEMPERATURE: -25° C to +60° C
FIXED TEMPERATURE: -40° C to +60° C
FLAME RETARDANT: IEC 60332 -1
INSULATION RESISTANCE: 20 MΩ x km

Cable Parameter

AWG	NO. OF CORES X NOMINAL CROSS SECTIONAL AREA	NOMINAL THICKNESS OF INSULATION	NOMINAL THICKNESS OF SHEATH	NOMINAL OVERALL DIAMETER	NOMINAL COPPER WEIGHT	NOMINAL WEIGHT
	# X MM ²	MM	MM	MM MIN-MAX	KG/KM	KG/KM

16(30/30)	3 x 1.5	0.8	1.6	9.2-11.9	43	165
16(30/30)	4 x 1.5	0.8	1.7	10.2-13.1	58	200
16(30/30)	5 x 1.5	0.8	1.8	11.2-14.4	72	240
16(30/30)	7 x 1.5	0.8	2.6	14.5-17.5	101	385
16(30/30)	12 x 1.5	0.8	2.9	17.6-22.4	173	516
16(30/30)	19 x 1.5	0.8	3.2	20.7-26.3	274	800
16(30/30)	24 x 1.5	0.8	3.5	24.3-30.7	346	882
16(30/30)	27 x 1.5	0.8	3.6	25.5-31.5	389	1077
14(50/30)	3 x 2.5	0.9	1.8	10.9-14.0	72	235
14(50/30)	4 x 2.5	0.9	1.9	12.1-15.5	96	290
14(50/30)	7 x 2.5	0.9	2.8	16.5-20.0	168	520
14(50/30)	12 x 2.5	0.9	3.1	20.6-26.2	288	810
14(50/30)	19 x 2.5	0.9	3.5	25.5-31.0	456	1200
14(50/30)	24 x 2.5	0.9	3.9	28.8-36.4	576	1650
14(50/30)	27 x 2.5	0.9	4.2	30.0-37.0	648	1521
14(50/30)	37x 2.5	0.9	4.5	34.0-37.5	725	1952
12(56/28)	3 x 4	1	1.9	12.7-16.2	115	320
12(56/28)	4 x 4	1	2	14.0-17.9	154	395
10(84/28)	3 x 6	1	2.1	14.1-18.0	173	495
10(84/28)	4 x 6	1	2.3	15.7-20.0	230	610
8(80/26)	3 x 10	1.2	3.3	19.1-24.2	288	880
8(80/26)	4 x 10	1.2	3.4	20.9-26.5	384	1060
6(128/26)	3 x 16	1.2	3.5	21.8-27.6	461	1090
6(128/26)	4 x 16	1.2	3.6	23.8-30.1	614	1345