



industrial application



internal application



external application



underground installation



EN 60332-1



UV resistance

Technical data:

Operating temperature:

fixed installation: -40°C to 80°C
min. installation temperature: -5°C

Max. conductor temperature:

during installation: 70°C
during short-circuit: 160°C

Operating voltage: $U_0/U=0,6/1kV$

Min. insulation resistance: 100MΩxkm

Test voltage: 4000V

Min. bending radius: 10xØ

Construction:

Conductors: copper conductors cl. 1 (acc. to EN 60228, IEC 60228)

Insulation: special PVC

Colour coding: numbered, green-yellow core

Core arrangement: cores twisted together parallelly

Outer sheath: special PVC, oil resistant (chemical resistance table), flame retardant and self-extinguishing (acc. to EN 60332-1, IEC 60332-1), UV resistant

Outer sheath colour: black

Application:

Cables designed for operation in control and protective devices as well as in control circuits, also for power supply. They are suitable for fixed installations, for direct underground installations as well as for installations in cable ducts and on structures (gantries) at points that receive little mechanical stresses.

Cables classified according to **EN 50575 (CPR)**.

Max. pulling tension during installation:

- tension applied directly to the conductors: 50xS

- tension applied by means of pulling device (pulling grip): 50xS

S - the sum of the cross-sectional areas of all contained conductors [mm²]

Cat. no.	n x mm ²	Outer diameter [mm]	Cable weight [kg/km]	Cu [kg/km]
EM8300	7G1,0	11,9	220,0	67,2
EM8301	10G1,0	15,0	320,0	96,0
EM8303	14G1,0	15,7	370,0	134,4
EM8305	19G1,0	17,4	465,0	182,4
EM8307	24G1,0	20,1	580,0	230,4
EM8308	30G1,0	21,2	685,0	288,0
EM8309	37G1,0	22,8	815,0	355,0
EM8310	48G1,0	25,9	1025,0	460,8
EM8311	61G1,0	28,5	1270,0	585,6
EM8312	75G1,0	31,8	1550,0	720,0
EM8313	7G1,5	12,6	260,0	100,8
EM8314	10G1,5	16,0	380,0	144,0
EM8316	14G1,5	16,7	450,0	201,6
EM8318	19G1,5	18,5	570,0	273,6
EM8320	24G1,5	21,5	710,0	345,6
EM8321	30G1,5	22,6	845,0	432,0
EM8322	37G1,5	24,4	1010,0	532,8

Cat. no.	n x mm ²	Outer diameter [mm]	Cable weight [kg/km]	Cu [kg/km]
EM8323	48G1,5	27,8	1280,0	691,2
EM8324	61G1,5	30,5	1590,0	878,4
EM8325	75G1,5	34,1	1940,0	1080,0
EM8326	7G2,5	13,7	340,0	168,0
EM8327	10G2,5	17,6	500,0	240,0
EM8329	14G2,5	18,4	605,0	336,0
EM8330	19G2,5	20,4	780,0	456,0
EM8331	24G2,5	23,7	975,0	576,0
EM8332	30G2,5	25,1	1165,0	720,0
EM8333	37G2,5	27,1	1400,0	888,0
EM8334	7G4	16,3	505,0	268,8
EM8335	10G4	21,1	750,0	384,0
EM8336	7G6	17,8	660,0	403,2
EM8337	10G6	23,2	980,0	576,0
EM8338	7G10	20,2	960,0	672,0
EM8339	10G10	26,5	1430,0	960,0

Cable Factory BITNER reserves the right to modify the specifications without prior notification.

Note: On customer's request other cross sections or number of cores can be produced.

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