

FLAME-X 950

BFSI EMC 0,6/1kV

based on IEC 60502-1; HD 604-5D



Halogen- free low smoke fire resistant security power cables with copper foil tape and copper concentric conductor



CONSTRUCTION

Conductors:	plain annealed copper circular solid class 1(RE), circular or circular compacted stranded conductor class 2 (RM) or stranded sector – shaped conductor class 2 (SM) acc. to EN 60228
Primary insulation:	A suitable wrapping of mica tape with a glass cloth
Insulation:	special XLPE compound type XLPE acc. to IEC 60502-1
Inner covering:	Halogen free tape
Concentric conductor:	Copper foil tape and copper wires with copper tape helically wounded
Sheath:	thermoplastic halogen- free compound type ST ₈ acc. to IEC 60502-1
Colour of sheath:	orange
Core identification:	
1-core:	black,
2-core:	black, blue or HD 308 S2: blue, brown
3-core:	black, brown, white or HD 308 S2: brown, black, grey
4-core:	black, blue, brown, white or HD 308S2: blue, brown, black grey
5-core:	HD 308S2: blue, brown, black, grey, black

CHARACTERISTIC

Maximum conductor operating temperature:	+90°C
Lowest ambient temperature for fixed installation:	-40°C
Lowest installation temperature:	-20°C
Cold impact test HD 604-5D:	-25±2°C
Maximum short-circuit conductor temperature:	+250°C
Test voltage of complete cable:	4 kV AC 50Hz , 5 min.
Minimum bending radius:	15D - for single core cable 12D - for multicore cable (D - overall cable diameter)
Maximum permissible tensile stress with cable grip for Cu:	50 N/mm ²

FIRE PERFORMANCE

Fire resistant:	IEC 60331-21 (3h, 750°C)
Flame propagation:	IEC 60332-1-2, IEC 60332-3-24 (kat. C)

FLAME-X 950 BFSI EMC JW-15-11-2018_Dca
Replace FLAME-X 950 BFSI EMC JW-14-11-2018_Dca

FLAME-X 950

BFSI EMC 0,6/1kV

based on IEC 60502-1; HD 604-5D



Smoke density:	IEC 61034-2
Gases evolved during combustion:	IEC 60754-2: pH \geq 4,3; conductivity \leq 10 μ Smm ⁻¹ IEC 60754-1, HCL \leq 0,5%
CPR – class reaction to fire (acc EN 50575):	D2ca-s2,d2,a2

APPLICATIONS

Fire resistant security cables for installation everywhere where high safety requirements have a special significance e.g., in industrial complexes, power stations, public buildings, hotels, underground railway systems, hospitals etc. The copper screen have 100% covering and complies with the EMC directive with right practicable installation. Installations in the open air, underground, indoors, in cable ducts. Not suitable for use in water. Cables may be layed directly in ground if installed properly and carefully acc. to REN leaf 9000 guide

Standard length cable packing	500 or 1000m on drums. Other forms of packing and delivery are available on request
--------------------------------------	--



FLAME-X 950 BFSI EMC JW-15-11-2018_Dca
Replace *FLAME-X 950 BFSI EMC JW-14-11-2018_Dca*

FLAME-X 950

BFSI EMC 0,6/1kV

based on IEC 60502-1; HD 604-5D



Number and cross-sectional area of conductor	Approximate overall diameter	Approximate net weight of cables	Maximum conductor resistance at temperature 20°C	CPR – Class reaction to fire
n x mm ²	mm	kg/km	Ω/km	
2x1,5RE/1,5	13,2	196	12,1 / 12,1	D2ca-s2,d2,a2
2x1,5RM/1,5	13,6	202	12,1 / 12,1	-
3x1,5RE/1,5	13,8	222	12,1 / 12,1	D2ca-s2,d2,a2
3x1,5RM/1,5	14,2	229	12,1 / 12,1	-
4x1,5RE/1,5	14,8	248	12,1 / 12,1	D2ca-s2,d2,a2
4x1,5RM/1,5	15,3	256	12,1 / 12,1	-
5x1,5RE/1,5	15,8	286	12,1 / 12,1	D2ca-s2,d2,a2
2x2,5RE/2,5	14,0	225	7,41 / 7,41	D2ca-s2,d2,a2
2x2,5RM/2,5	14,5	234	7,41 / 7,41	D2ca-s2,d2,a2
3x2,5RE/2,5	14,6	261	7,41 / 7,41	D2ca-s2,d2,a2
4x2,5RE/2,5	15,7	296	7,41 / 7,41	D2ca-s2,d2,a2
4x2,5RM/2,5	16,3	306	7,41 / 7,41	D2ca-s2,d2,a2
5x2,5RE/2,5	16,9	347	7,41 / 7,41	D2ca-s2,d2,a2
2x4RE/4	15,3	286	4,61 / 4,61	D2ca-s2,d2,a2
3x4RE/4	16,0	337	4,61 / 4,61	D2ca-s2,d2,a2
3x4RM/4	16,7	350	4,61 / 4,61	D2ca-s2,d2,a2
4x4RE/4	17,2	385	4,61 / 4,61	D2ca-s2,d2,a2
4x4RM/4	18,0	400	4,61 / 4,61	-
5x4RE/4	18,5	453	4,61 / 4,61	D2ca-s2,d2,a2
2x6RE/6	16,6	357	3,08 / 3,08	D2ca-s2,d2,a2
2x6RM/6	17,0	364	3,08 / 3,08	-
3x6RE/6	17,4	425	3,08 / 3,08	D2ca-s2,d2,a2
3x6RM/6	17,8	434	3,08 / 3,08	-
4x6RE/6	18,7	491	3,08 / 3,08	D2ca-s2,d2,a2
4x6RM/6	19,1	499	3,08 / 3,08	-
5x6RE/6	20,1	579	3,08 / 3,08	D2ca-s2,d2,a2
2x10RE/10	18,3	490	1,83 / 1,83	D2ca-s2,d2,a2
2x10RM/10	18,9	517	1,83 / 1,83	-
3x10RE/10	19,2	596	1,83 / 1,83	D2ca-s2,d2,a2
3x10RM/10	19,8	610	1,83 / 1,83	-
4x10RE/10	20,7	696	1,83 / 1,83	D2ca-s2,d2,a2
4x10RM/10	21,4	712	1,83 / 1,83	-
5x10RE/10	22,4	828	1,83 / 1,83	D2ca-s2,d2,a2
2x16RE/16	20,1	676	1,15 / 1,15	D2ca-s2,d2,a2
2x16RM/16	20,9	716	1,15 / 1,15	-

FLAME-X 950 BFSI EMC JW-15-11-2018_Dca
Replace FLAME-X 950 BFSI EMC JW-14-11-2018_Dca

FLAME-X 950

BFSI EMC 0,6/1kV

based on IEC 60502-1; HD 604-5D



3x16RE/16	21,1	835	1,15 / 1,15	D2ca-s2,d2,a2
3x16RM/16	22,0	859	1,15 / 1,15	-
4x16RE/16	22,9	986	1,15 / 1,15	D2ca-s2,d2,a2
4x16RM/16	23,9	1012	1,15 / 1,15	-
5x16RE/16	24,8	1177	1,15 / 1,15	D2ca-s2,d2,a2
2x25RM/16	24,9	957	0,727 / 1,15	D2ca-s2,d2,a2
3x25RM/16	26,3	1212	0,727 / 1,15	D2ca-s2,d2,a2
4x25RM/16	28,7	1447	0,727 / 1,15	D2ca-s2,d2,a2
2x35RM/16	27,0	1172	0,524 / 1,15	D2ca-s2,d2,a2
3x35RM/16	28,6	1515	0,524 / 1,15	D2ca-s2,d2,a2
4x35RM/16	31,2	1843	0,524 / 1,15	D2ca-s2,d2,a2
4x35SM/16	28,7	1828	0,524 / 1,15	D2ca-s2,d2,a2
3x50SM/25	28,7	1914	0,387 / 0,727	D2ca-s2,d2,a2
4x50SM/25	32,2	2441	0,387 / 0,727	D2ca-s2,d2,a2
3x70SM/35	32,6	2667	0,268 / 0,524	D2ca-s2,d2,a2
4x70SM/35	36,6	3401	0,268 / 0,524	D2ca-s2,d2,a2
3x95SM/50	35,7	3572	0,193 / 0,387	D2ca-s2,d2,a2
4x95SM/50	40,3	4563	0,193 / 0,387	D2ca-s2,d2,a2
3x120SM/70	39,5	4516	0,153 / 0,268	D2ca-s2,d2,a2
4x120SM/70	45,1	5776	0,153 / 0,268	D2ca-s2,d2,a2
5x120SM/70	48,4	6975	0,153 / 0,268	D2ca-s2,d2,a2
3x150SM/70	43,7	5405	0,124 / 0,268	D2ca-s2,d2,a2
4x150SM/70	49,1	6912	0,124 / 0,268	D2ca-s2,d2,a2
3x185SM/95	47,6	6741	0,0991 / 0,193	D2ca-s2,d2,a2
4x185SM/95	53,8	8637	0,0991 / 0,193	D2ca-s2,d2,a2
3x240SM/120	53,5	8706	0,0754 / 0,153	D2ca-s2,d2,a2
4x240SM/120	60,3	11158	0,0754 / 0,153	D2ca-s2,d2,a2
3x300SM/150	58,1	10638	0,0601 / 0,124	D2ca-s2,d2,a2
4x300SM/150	65,3	13629	0,0601 / 0,124	-

All the information contained in this document - including tables and diagrams - is given in good faith and believed to be correct at the time of publication. The information does not constitute a warranty nor representation for which TELE-FONIKA Kable assumes legal responsibility. TELE-FONIKA Kable reserves rights to introduce changes to the document at any time.

FLAME-X 950 BFSI EMC JW-15-11-2018_Dca
 Replace **FLAME-X 950 BFSI EMC JW-14-11-2018_Dca**