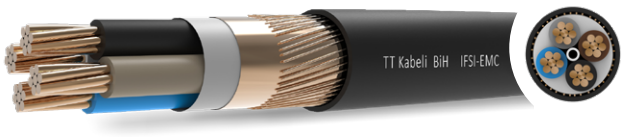
ttcables
ELECTRIC CABLE WORKS



IFSI-EMC, FXQJ-EMC

Power cable 0,6/1 kV, with Cu conductors, XLPE insulated and sheathed with halogen-free compound, with concentric conductor

APPLICATION

EMC shielded power cable with copper conductors. Halogen free, flame retardant and self-extinguishing in the event of fire. Smoke in the event of fire is minimal, transparent and not harmful to electronic equipment. For fixed installation, indoors, outdoors, in pipes, ground or water.
Suitable for switchgear and potentially explosive areas. Can be plowed down when care is taken. The copper screen has 100% coverage and meets EMC Directive with appropriate installation.

TECHNICAL CHARACTERISTICS

Test voltage: 4 Kv
Rated voltage: 0,6/1 kV
Bending radius (min): multicore- 12D
Min. laying temperature:-20°C (during installation below 0°C special precausion is needed)
Max. conductor temperature: 90°C
Max. short-circuit temperature: 250°C

CONSTRUCTION

Conductors: Cu, class1 or 2 according to EN 60228
Insulation: XLPE compound
Bedding: Halogen-free plastic tape
Concentric conductor: Cu foil tape and Cu wires with counter helix of Cu tape
Sheath: Halogen-free compound, black

STANDARD

HD 604 S1-5D, IEC 60502-1

CORE IDENTIFICATION

According to HD 308 S2

Insulation Color:
2-core: Brown Blue
3-core (a): Green/Yellow Brown Blue
3-core (b): Black Brown Grey
4-core (a): Green/Yellow Brown Black Grey
4-core (b): Blue Brown Black Grey
5-core: Green/Yellow Blue Brown Black Grey

Outer Sheath Colour:
Black
Other colours available on request

CERTIFICATION

CE
RoHS compliant
REACH
IEC International Electrotechnical Commission
CPR

TWO- CORE CABLES

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm²		**Ω/km**	**A**	**mm**	**kg/km**	**kg/km**
2x1,5/1,5	RE	12,1/12,1	25	**11,5**	43,2	123
2x2,5/2,5	RE	7,41/7,41	33	12,3	72,0	160
2x4/4	RE	4,61/4,61	43	13,3	115,2	212
2x6/6	RE	3,08/3,08	54	14,4	172,8	279
2x10/10	RE	1,83/1,83	75	16,8	288,0	435
2x16/16	RE	1,15/1,15	100	18,9	460,8	629
2x25/16	RM	0,727/1,15	136	21,9	633,6	841
2x35/16	RM	0,524/1,15	165	24,1	825,6	1057

THREE- CORE CABLES

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm²		**Ω/km**	**A**	**mm**	**kg/km**	**kg/km**
3x1,5/1,5	RE	12,1/12,1	25	**12,0**	57,6	146
3x2,5/2,5	RE	7,41/7,41	33	12,8	96	192
3x4/4	RE	4,61/4,61	43	13,9	153,6	261
3x6/6	RE	3,08/3,08	54	15,1	230,4	349
3x10/10	RE	1,83/1,83	75	17,6	384	546
3x16/16	RE	1,15/1,15	100	19,8	614,4	801
3x25/16	RM	0,727/1,15	136	23,1	873,6	1108
3x35/16	RM	0,524/1,15	165	25,5	1161,6	1425
3x50/25	SM	0,387/0,727	201	28,8	1680	1991
3x70/35	SM	0,268/0,524	255	32,5	2352	2717
3x95/50	SM	0,193/0,387	314	37,0	3216	3698
3x120/70	SM	0,153/0,268	364	40,8	4128	4676
3x150/70	SM	0,124/0,268	416	44,8	4992	5626
3x185/95	SM	0,0991/0,193	480	50,0	6240	7065
3x240/120	SM	0,0754/0,153	565	55,4	8064	9006

FOUR- CORE CABLES

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm²		Ω/km	A	mm	kg/km	kg/km
4x1,5/1,5	RE	12,1/12,1	25	**12,7**	72	170
4x2,5/2,5	RE	7,41/7,41	33	13,6	120	228
4x4/4	RE	4,61/4,61	43	14,9	192	313
4x6/6	RE	3,08/3,08	54	16,2	288	422
4x10/10	RE	1,83/1,83	75	118,9	180	662
4x16/16	RE	1,15/1,15	100	21,4	768	979
4x25/16	RM	0,727/1,15	136	25,0	1114	1381
4x35/16	SM	0,524/1,15	165	27,7	1498	1800
4x50/25	SM	0,387/0,727	201	31,4	2160	2520
4x70/35	SM	0,268/0,524	255	35,5	3024	3449
4x95/50	SM	0,193/0,387	314	40,5	4128	4686
4x120/70	SM	0,153/0,268	364	44,6	5280	5916
4x150/70	SM	0,124/0,268	416	49,0	6432	7172
4x185/95	SM	0,0991/0,193	480	54,8	8016	8980
4x240/120	SM	0,0754/0,153	565	60,1	10368	11473

FIVE- CORE CABLES

NOMINAL CROSS-SECTION	CONDUCTOR SHAPE	MAX. RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	OUTER DIAM. (APPROX.)	METAL WEIGHT	CABLE WEIGHT (APPROX.)
mm²		Ω/km	A	mm	kg/km	kg/km
5x1,5/1,5	RE	12,1/12,1	25	**13,5**	86,4	194
5x2,5/2,5	RE	7,41/7,41	33	14,5	144,0	263
5x4/4	RE	4,61/4,61	43	15,9	230,4	364
5x6/6	RE	3,08/3,08	54	17,3	345,6	495
5x10/10	RE	1,83/1,83	75	20,3	576,0	779
5x16/16	RE	1,15/1,15	100	23,0	921,6	1157