



SARTELKABLO
www.sartelkablo.com

Transmit Energy Without Loss!

XGB-F2 0,6 / 1 kV

SARTELKABLO

Without Wasting Our Resources
Transmit Energy Without Loss

We as Sartel Kablo laid our foundation and manufacture low voltage electric cables with the slogan "Transmit Energy WithOut Loss" in 1999 in Nazilli /TURKEY. Sartel Kablo is a cable trademark that both contributes to the national economy and employs the local people.

Sartel Kablo has 17.000 m2 closed and totally 115.000 m2 producing area and has 30.000 tones of cable production capacity. We manufacture all low voltage energy groups like NYA, NYM, TTR, NYY, NYAF, Steel Armoured Cables, Halogen Free Cables, Flat Cable, Twin-Earth Cables, N2XY RO2V Cables, submersible coil wire and many more.

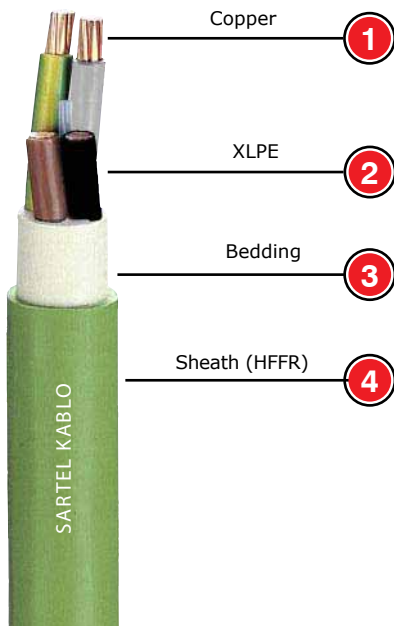
Sartel Kablo produces his cables with Turkish and International standards. Alongside with his good quality produced products Sartel Kablo considers his customers requests with importance and immediate reply. With this vision we have a wide "High Quality " certificate range from the quality institutes. We have quality and system certificates as TSE, ISO, HAR, CE from Turkey, BA-SEC from England, NF from France and international Standard certificates from Israel, Ukranie and Russia.

Sartel Kablo's marketing and sale strategy is "quality cable" and "customer satisfaction". In this context , our firm which refreshes itself with developing and growing market,differentiates with the experience and the knowledge from the past to todays market conditions.

Sartel Kablo owes his success and trust to his employees big effort and to his customers trust in the brand "Sartel Kablo". Our Firm's target in the market is to produce high quality products with the wishes from our customers and to be known in the cable industry as a high quality cable manufacturer. Sartel Kablo is proud to have both domestic and foreign customers all around the world that honours the brand "Sartel Kablo" Sartel Kablo continues his services with quality, wide product range and on time delivery to domestic and foreigncustomers. We know that permanent success can be provided only with quality products, fast dispatch, experienced and dynamic team and loyal customers. So with this point of view we expand our team parallel to our business volume and to alternating market conditions. Sartel Kablo continues his investments with determination and grows with his customers intrest and trust which brings us to one of the biggest cable manufacturer in TURKEY.

Sartel Kablo which its priority; produce leader of quality, environmentally – conscious cables, in the same time raise customer satisfaction and to provide a sustainable habitable world , declare its vision be one of the leader company of turkish cable sector, be a professional partner for customers, declare its mission serve customers qualified and reliable products, accomplish customers requirements instantly and completely also be environmentally conscious and protect the nature.





XGB-F2 0,6 / 1 kV

Halogen-free, fire-retardant cable for installations inside buildings with high concentrations of people or expensive equipment especially in difficult evacuation conditions (class BD2, BD3 or BD4 according to Belgian AREI/RGIE regulations).

ELECTRICAL PROPERTIES

NOMINAL VOLTAGE	600/1000 V
TEST VOLTAGE	3500 V

PHYSICAL CHARACTERISTICS

OPERATION TEMPERATURE	90 °C
SHORT CUTCUIT TEMPERATURE	250 °C
MIN. BENDING RADIUS	Single Cores: 15xD Multi Cores : 12xD
MIN. BENDING TEMPERATURE	0°C

CONDUCTOR PROPERTIES

TYPE OF CONDUCTOR	PURE COPPER
CLASS	1 or 2

INSULATION MATERIALS

INSULATION	XLPE
BEDDING	Common Core Covering
ARMOUR	-
OUTHER SHEAT	Halogen Free Compound

COLOURS

CORES COLOUR

SINGLE CORE	THERE IS NO PREFERRED COLOR SCHEME
2 CORES	BLUE - BROWN
3 CORES	Y/GREEN - BLUE - BROWN
4 CORES	BLUE - BROWN - BLACK - GREY
5 CORES	Y/GREEN - BLUE - BROWN - BLACK - GREY

SHEATH COLOUR : **GREEN**

PRODUCT STANDART

International : IEC 60332-3-24

PRODUCT CODE

XGB-F2

National : NBN C30-004 ST,SD,SA;
NBN HD 604 Part 5/Sept.L

XGB-F2

Copper core, solid (Class 1) or stranded (Class 2)

Cross-linked polyethylene (XLPE) insulation (X)

Filling compound or tape halogen-free

Outer sheath in halogen-free thermoplastic material (G) -
Colour: GREEN

INSTALLATION DESIGN

In cable channel

In cable duct

In open air

In industries

In houses

No underground installation

PROPERTIES

NBN C30-004

F1: Flame-retardant
(NBN EN 60332-1-2)

F2: Fire-retardant
(NBN EN 60332-3-24)

ST: Toxicity of smoke
(NF X 70-100-1+2)

SD: Smoke density
(NBN EN 61034-1)

SA: Acidity of combustion gases
(NBN EN 50267-2-3)

CHARACTERISTICS



Rigit Conductor, Class 2



Max. Servis Temperature



Meter by meter marking



Industrial use



Buried



Damp environment



Maximum short-circuit temperature: 250°C (max 5 s)



Minimum service temperature: -15°C



Chemical & oil resistance: good



In conduit



Open air



Impact resistance: AG2. Medium impact



Minimum bending radius: 5 x cable diameter

INSTALLATION CONDITIONS

TECHNICAL FEATURES

Technical Datas For XGB-F2 0,6 / 1kV

CROSS SECTION	RE / RM	COPPER RESISTANCE	INSULATION THICKNESS	SHEATH THICKNESS	SHEATH DIAMETER	MIN. INSULATION RESISTANCE (20°C)	APPROXIMATELY WEIGHTS	CURRENT CARRYING CAPACITY
mm ²	CLASS	ohm/km	mm	mm	mm	Mohm.km	(kg/km)	A
1X16	RM	1,15	0,7	1,4	9,10	>3000	210	131
1X25	RM	0,727	0,9	1,4	10,60	>3000	310	177
1X35	RM	0,524	0,9	1,4	11,70	>3000	400	217
1X50	RM	0,387	1	1,4	13,00	>3000	530	265
1X70	RM	0,268	1,1	1,4	14,90	>3000	740	336
1X95	RM	0,193	1,1	1,5	16,80	>3000	1000	415
1X120	RM	0,153	1,2	1,5	18,00	>3000	1240	485
1X150	RM	0,124	1,4	1,6	20,30	>3000	1520	557
1X185	RM	0,0991	1,6	1,6	22,50	>3000	1900	647
1X240	RM	0,0754	1,7	1,7	25,50	>3000	2460	775
1X300	RM	0,0601	1,8	1,8	28,2	>3000	3070	-
2X1,5	RE	12,10	0,7	1,4	9,30	>3000	125	25
2X2,5	RE	7,41	0,7	1,4	10,10	>3000	160	34
2X4	RE	4,61	0,7	1,4	11,10	>3000	210	44
2X6	RE	3,08	0,7	1,4	12,10	>3000	260	57
2X10	RE	1,83	0,7	1,4	13,70	>3000	370	77
2X16	RM	1,15	0,7	1,4	16,50	>3000	570	—
2X25	RM	0,727	0,9	1,6	20,70	>3000	900	—
2X35	RM	0,524	0,9	1,6	22,90	>3000	1170	—

TECHNICAL FEATURES

Technical Datas For XGB-F2 0,6 / 1kV

CROSS SECTION	RE / RM	COPPER RESISTANCE	INSULATION THICKNESS	SHEATH THICKNESS	SHEATH DIAMETER	MIN. INSULATION RESISTANCE (20°C)	APPROXIMATELY WEIGHTS	CURRENT CARRYING CAPACITY
mm ²	CLASS	ohm/km	mm	mm	mm	Mohm.km	(kg/km)	A
3x 1,5	RE	12,10	0,7	1,4	9,7	>3000	140	24
3x 2,5	RE	7,41	0,7	1,4	10,6	>3000	180	32
3x 4	RE	4,61	0,7	1,4	11,7	>3000	250	42
3x 6	RE	3,08	0,7	1,4	12,8	>3000	320	53
3x 10	RE	1,83	0,7	1,4	14,9	>3000	480	73
3x 16	RM	1,15	0,7	1,5	17,7	>3000	730	97
3x 25	RM	0,727	0,9	1,6	21,9	>3000	1130	132
3x 35	RM	0,524	0,9	1,7	24,9	>3000	1495	162
3x 50	RM	0,387	1	1,8	27,5	>3000	1955	197
3x 70	RM	0,268	1,1	1,9	29,1	>3000	2450	250
3x 95	RM	0,193	1,1	2	32,3	>3000	3250	308
3x 120	RM	0,153	1,2	2,1	35,2	>3000	3970	359
3x 150	RM	0,124	1,4	2,3	40,1	>3000	4000	412
3x 185	RM	0,0991	1,6	2,4	44,5	>3000	6240	475
3x 240	RM	0,0754	1,7	2,6	49,8	>3000	8010	564
3x 300	RM	0,0601	1,8	2,8	55,1	>3000	9950	-
3 X 25+16	RM/RM	0,727 / 1,15	0,9/0,7	1,6	23	>3000	1300	127
3 X 35+16	RM/RM	0,524 / 1,15	0,9/0,7	1,7	25,3	>3000	1650	158
3x50+25	RM/RM	0,387 / 0,727	1,0/0,9	1,8	29	>3000	2210	197
3 X 70+35	RM/RM	0,268 / 0,524	1,1/0,9	1,9	32,4	>3000	2940	250
3 X 95+50	RM/RM	0,193 / 0,387	1,1/1,0	2,1	37,4	>3000	4030	308
3 X 120+70	RM/RM	0,153 / 0,268	1,2/1,1	2,2	41,2	>3000	5030	359
3 x 150+70	RM/RM	0,124 / 0,268	1,4/1,1	2,3	46	>3000	6130	412
3 X 185+95	RM/RM	0,0991 / 0,193	1,6/1,1	2,5	50,7	>3000	7650	475
3 X 240+120	RM/RM	0,0754 / 0,153	1,7/1,2	2,7	57,9	>3000	9970	564
3 X 300+150	RM/RM	0,0601 / 0,124	18/14	29	649	>3000	12490	-

TECHNICAL FEATURES

Technical Datas For XGB-F2

CROSS SECTION	RE / RM	COPPER RESISTANCE	INSULATION THICKNESS	SHEATH THICKNESS	SHEATH DIAMETER	MIN. INSULATION RESISTANCE (20°C)	APPROXIMATELY WEIGHTS	CURRENT CARRYING CAPACITY
mm ²	CLASS	ohm/km	mm	mm	mm	Mohm.km	(kg/km)	A
4x 1,5	RE	12,10	0,7	1,4	10,4	>3000	170	24
4x 2,5	RE	7,41	0,7	1,4	11,4	>3000	220	32
4x 4	RE	4,61	0,7	1,4	12,6	>3000	300	42
4x 6	RE	3,08	0,7	1,4	13,8	>3000	390	53
4x 10	RE	1,83	0,7	1,5	16,3	>3000	600	73
4x 16	RM	1,15	0,7	1,5	19,2	>3000	910	97
4x 25	RM	0,727	0,9	1,7	24,1	>3000	1420	132
4x 35	RM	0,524	0,9	1,8	26,9	>3000	1880	162
4x 50	RM	0,387	1	1,9	30,5	>3000	2475	197
4x 70	RM	0,268	1,1	2	32,6	>3000	3180	250
4x 95	RM	0,193	1,1	2,1	37,4	>3000	4360	308
4x 120	RM	0,153	1,2	2,3	41,4	>3000	5390	359
4x 150	RM	0,124	1,4	2,4	46,2	>3000	6670	412
4x 185	RM	0,0991	1,6	2,6	50,9	>3000	8250	475
4x 240	RM	0,0754	1,7	2,8	58,1	>3000	10800	564
4x 300	RM	0,0601	1,8	3	65,1	>3000	13560	-
5x 1,5 RE	RE	12,10	0,7	1,4	11,2	>3000	195	24
5x 2,5RE	RE	7,41	0,7	1,4	12,3	>3000	260	32
5x 4RE	RE	4,61	0,7	1,4	13,7	>3000	360	42
5x 6RE	RE	3,08	0,7	1,4	15,4	>3000	490	53
5x 10 RE	RE	1,83	0,7	1,5	17,8	>3000	720	73

TECHNICAL FEATURES

Technical Datas For XGB-F2

CROSS SECTION	RE / RM	COPPER RESISTANCE	INSULATION THICKNESS	SHEATH THICKNESS	SHEATH DIAMETER	MIN. INSULATION RESISTANCE (20°C)	APPROXIMATELY WEIGHTS	CURRENT CARRYING CAPACITY
mm ²	CLASS	ohm/km	mm	mm	mm	Mohm.km	(kg/km)	A
7x 1,5	RE	12,10	0,7	1,4	12,1	>3000	245	24
7x 2,5	RE	7,41	0,7	1,4	13,3	>3000	330	32
9x 1,5	RE	12,10	0,7	1,4	14,5	>3000	340	24
9x 2,5	RE	7,41	0,7	1,5	16,1	>3000	450	32
10x 1,5	RE	12,10	0,7	1,4	15,6	>3000	400	24
10x 2,5	RE	7,41	0,7	1,5	17,4	>3000	540	32
12x 1,5	RE	12,10	0,7	1,4	16	>3000	330	24
12x 2,5	RE	7,41	0,7	1,5	17,9	>3000	590	32
14x 1,5	RE	12,10	0,7	1,5	16,9	>3000	480	24
14x 2,5	RE	7,41	0,7	1,5	18,7	>3000	650	32
16x 1,5	RE	12,10	0,7	1,5	17,8	>3000	540	24
16x 2,5	RE	7,41	0,7	1,6	20,4	>3000	770	32
19x 1,5	RE	12,10	0,7	1,5	18,6	>3000	600	24
19x 2,5	RE	7,41	0,7	1,6	21,4	>3000	870	32
21 x 1,5	RE	12,10	0,7	1,6	20,4	>3000	710	24
21 x 2,5	RE	7,41	0,7	1,6	22,5	>3000	950	32
24x 1,5	RE	12,10	0,7	1,6	22,2	>3000	840	24
24x 2,5	RE	7,41	0,7	1,6	24,8	>3000	1150	32
27x 1,5	RE	12,10	0,7	1,6	22,6	>3000	890	24
27x 2,5	RE	7,41	0,7	1,6	25,3	>3000	1220	32
30x 1,5	RE	12,10	0,7	1,7	23,5	>3000	960	24
30x 2,5	RE	7,41	0,7	1,8	26,3	>3000	1330	32
37x 1,5	RE	12,10	0,7	1,7	25,2	>3000	1125	24
37x 2,5	RE	7,41	0,7	1,8	28,2	>3000	1565	32
40x 1,5	RE	12,10	0,7	1,8	26,4	>3000	1225	24
40x 2,5	RE	7,41	7	1,9	29,5	>3000	1700	32

TECHNICAL FEATURES

Technical Datas For XGB-F2

TEST NAME	TEST STANDART	CLAUSE NUMBER	PARAMETERS
CABLE PRINTING CONTROL	TS HD 601 S1/A3	CLAUSE 3	550mm
THICKNESS CONTROLS	TS HD 601 S1	PART 4D	CHART 3-4
CONDUCTOR RESISTANCE	HD 605-3.1.1 / BS EN 60228	BS EN 60228 ÇİZELGE 2	BS EN 60228 CHART 2
INSULATION RESISTANCE	XLPE		500V 1s / > 0,0050
CABLE RESISTANT TESTS	HD 605-3.2.1	CLAUSE 2.4.1.1	3500V 5s
CORE RESISTANT TESTS	HD 605-3.2.2.2	CLAUSE 2.4.1.2	3500V 5s
AGEING TESTS	TS HD 601 S1 / EN 60811-1-2	TS HD 601 CLAUSE 4.2.4 / EN 60811-1-2 CLAUSE 9.1-9.2	TS HD 601 CHART 1
HOTSET TESTS	TS HD 601 S1 / EN 60811-2-1	TS HD 601 CLAUSE 4.2.4 / EN 60811-2-1 CLAUSE 9	LOADED %100 / COLD %15
PRESSURE TESTS UNDER HEAT DEGREES	TS HD 601 S1 / EN 60811-3-1	TS HD 601 CLAUSE 4.2.4 / EN 60811-3-1 CLAUSE 8.2.4 -8.2.5	< %50
BENDING LOW TEMPERATURE TEST	TS HD 601 S1 / EN 60811-1-4	TS HD 601 CLAUSE 4.2.4 / EN 60811-1-4 CLAUSE 8.2	TS HD 601 CHART 1
ELONGATION LOW TEMPERATURE TEST	TS HD 601 S1 / EN 60811-1-4	TS HD 601 CLAUSE 4.2.4 / EN 60811-1-4 CLAUSE 8.5	-15°C 16 H / 500gr
FIRE CONDITIONS TESTS	TS HD 601 S1 / EN 60332-3.24 CATEGORY C	TS HD 601 CLAUSE 4.2.4 / EN 60332-3.24 CATEGORY C	< 2,5 mt

POWER CARRYING CAPACITY IN DISTANCE

POWER			MAXIMUM CARRYING LENGTH OF THE POWER																
KW	HP	(A)	1,5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300	
2.5	3.3	4,8	146	243	388	582	970	1553											
3	4	5,7	121	202	323	485	809	1294											
3.5	4.7	6,6	104	173	277	416	693	1109											
4	5.3	7,6	91	152	243	364	606	970											
4.5	6	8,5	81	135	216	323	539	863	1348										
5	6.7	9,5	73	121	194	291	485	776	1213										
6	8	11,5	61	101	162	243	404	647	1011										
7	9.5	13,5	52	86.6	139	208	347	554	866	1213									
8	11	15	45	75.8	121	182	303	485	758	1061									
9	12	17	40	67.4	108	162	270	431	674	943									
10	13	19	36	60.6	97	146	243	388	606	849									
11	15	21	33	55.1	88,2	132	221	353	551	772	1103								
12	16	23	30	50.5	80,9	121	202	323	505	708	1011								
13	17	25		46.7	74,6	112	187	299	467	653	933								
14	19	27		43.3	69,3	104	173	277	433	606	866								
16	21	31		37.9	60,6	91	152	243	379	531	758	1061							
18	24	34			53,9	80,9	135	216	337	472	674	943							
20	27	38			48,5	72.8	121	194	303	425	606	849							
22	29	42			44,1	66.2	110	176	276	386	551	772	1048						
25	33	48				58.2	97	155	243	340	485	679	922						
30	40	57					80,9	129	202	283	404	566	768	970.4					
35	47	67					69,3	111	173	243	347	485	658	831.7					
40	53	76						97	152	212	303	425	576	727.8	910				
45	60	86						86.3	135	189	270	377	512	646.9	809				
50	67	95						77.6	121	170	243	340	461	582.2	728	898			
55	73	105						70.6	110	154	221	309	419	529.3	662	816			
60	80	114							101	142	202	283	384	485.2	606	748	970	1213	
70	93	133							86.6	121	173	243	329	415.9	520	641	832	1040	
75	100	143								113	162	226	307	388.1	485	598	776	970.4	
80	106	152								106	152	212	288	363.9	455	561	728	909.7	
90	120	171									135	189	256	323.5	404	499	647	808.6	
100	133	190									121	170	230	291.1	364	449	582	727.8	
110	146	209										154	210	264.6	331	408	529	661.6	
120	160	228										142	192	242.6	303	374	485	606.5	
130	173	247											177	223.9	280	345	448	559.8	
140	186	266												165	207.9	260	321	416	519.8
150	200	285													194.1	243	299	388	485.2
160	213	304													181.9	227	280	364	454.9
180	240	342														202	249	323	404.3
200	266	380															224	291	363.9
230	306	437																253	316.4
270	360	512																	269.5

Note: Above calculations of the cross section are based on given cos ϕ 0,80 and voltage drop 3%

Infrastructure is Establish
For Once

SARTELKABLO



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w w w . s a r t e l k a b l o . c o m

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