

H07Z1-K

CU/MGT/LSFOH - 450/750 V Wire

CABLE STANDARDS

IEC 60502-1 , ISIRI 3569-1



APPLICATION

The production structure of free halogen wires and cables is similar to the production structure of low pressure wires and cables, but with the main difference that it does not use raw materials with halogenated properties. It is also possible for customers to increase the temperature tolerance of wires and cables by 750 degrees Celsius using mica tape

CONSTRUCTION

Conductor

Class 5 stranded copper conductors

MGT

Mika glass tape

Insulation

LSFOH (Halogen Free)

CHARACTERISTICS

Voltage Rating (U₀.U) (Um)

450/750 V

Test Voltage

2500 V

Temperature Rating

-40°C to +80°C
0°C to +50°C

Short Circuit Temperature

+250°C

Minimum Bending Radius

15 x Overall Diameter for Single Core

H07Z1-K

CU/MGT/LSFOH - 450/750 V Wire

Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conductor Resistance at 20°C Ω.km	Short-circuit Current KA 1.sec Approx	CURRENT CARRYING CAPACITY				Capacitance μf.km Approx	Reactance		OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
					Amps		Approx			Ω.km			
	Conductor mm²				Trefoil		Flat			Trefoil	Flat		
					Ground	Air	Ground	Air					
1	1.5	RM	12.1	0.26	32	25	39	30	0.15	0.19	0.27	3.8	27
1	2.5	RM	7.41	0.41	43	34	51	42	0.18	0.19	0.26	4.5	40
1	4	RM	4.61	0.64	55	44	66	56	0.22	0.18	0.26	5.0	56
1	6	RM	3.08	0.94	68	57	82	71	0.25	0.17	0.25	5.6	76
1	10	RM	1.83	1.53	90	77	109	96	0.31	0.17	0.25	6.9	122
1	16	RM.V	1.15	2.41	115	102	139	128	0.33	0.09	0.17	8.3	190
1	25	RM.V	0.727	3.73	149	139	179	173	0.35	0.09	0.17	10.1	287
1	35	RM.V	0.524	5.19	178	170	213	212	0.40	0.09	0.16	11.4	382
1	50	RM.V	0.387	7.37	211	208	251	258	0.43	0.08	0.16	13.4	541
1	70	RM.V	0.268	10.27	259	265	307	328	0.47	0.08	0.16	15.2	693
1	95	RM.V	0.193	13.88	310	326	366	404	0.55	0.08	0.15	17.7	956
1	120	RM.V	0.153	17.50	352	381	416	471	0.58	0.08	0.15	19.3	1175
1	150	RM.V	0.124	21.83	396	438	465	541	0.58	0.08	0.15	21.4	1453
1	185	RM.V	0.0991	26.87	449	507	526	626	0.58	0.07	0.15	23.5	1751
1	240	RM.V	0.0754	34.80	521	606	610	749	0.63	0.07	0.15	26.7	2303

CABLE STANDARDS

IEC 60502-1 , ISIRI 3569-1

**APPLICATION**

The production structure of free halogen wires and cables is similar to the production structure of low pressure wires and cables, but with the main difference that it does not use raw materials with halogenated properties. It is also possible for customers to increase the temperature tolerance of wires and cables by 750 degrees Celsius using mica tape

CONSTRUCTION**Conductor**

Class 2 stranded copper conductors

MGT

Mika glass tape

Insulation

LSFOH (Halogen Free)

CHARACTERISTICS**Voltage Rating (U₀.U) (Um)**

450/750 V

Test Voltage

2500 V

Temperature Rating-40°C to +80°C
0°C to +50°C**Short Circuit Temperature**

+250°C

Minimum Bending Radius15 x Overall Diameter **for Single Core**

H07Z1-R

CU/MGT/LSFOH - 450/750 V Wire

Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conductor Resistance at 20°C	Short-circuit Current KA 1.sec Approx	CURRENT CARRYING CAPACITY				Capacitance $\mu\text{f.km}$ Approx	Reactance $\Omega\text{.km}$ Approx		OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
					Amps Approx					Trefoil	Flat		
	Conductor mm^2		$\Omega\text{.km}$	Trefoil		Flat							
					Ground	Air	Ground	Air					
1	1.5	RM	12.1	0.26	32	25	39	30	0.15	0.19	0.27	3.9	30
1	2.5	RM	7.41	0.41	43	34	51	42	0.18	0.19	0.26	4.5	42
1	4	RM	4.61	0.64	55	44	66	56	0.22	0.18	0.26	5.1	60
1	6	RM	3.08	0.94	68	57	82	71	0.25	0.17	0.25	5.6	81
1	10	RM	1.83	1.53	90	77	109	96	0.31	0.17	0.25	7.0	130
1	16	RM.V	1.15	2.41	115	102	139	128	0.33	0.10	0.17	7.8	180
1	25	RM.V	0.727	3.73	149	139	179	173	0.35	0.09	0.17	9.4	276
1	35	RM.V	0.524	5.19	178	170	213	212	0.40	0.09	0.17	10.5	367
1	50	RM.V	0.387	7.37	211	208	251	258	0.43	0.09	0.16	11.9	488
1	70	RM.V	0.268	10.27	259	265	307	328	0.47	0.08	0.16	13.5	685
1	95	RM.V	0.193	13.88	310	326	366	404	0.55	0.08	0.16	15.6	938
1	120	RM.V	0.153	17.50	352	381	416	471	0.58	0.08	0.16	17.1	1167
1	150	RM.V	0.124	21.83	396	438	465	541	0.58	0.08	0.15	18.9	1437
1	185	RM.V	0.0991	26.87	449	507	526	626	0.58	0.08	0.15	20.8	1783
1	240	RM.V	0.0754	34.80	521	606	610	749	0.63	0.08	0.15	23.7	2328
1	300	RM.V	0.0601	43.44	587	697	689	864	0.67	0.08	0.15	26.1	2904

CABLE STANDARDS

IEC 60502-1 , ISIRI 3569-1



APPLICATION

The production structure of free halogen wires and cables is similar to the production structure of low pressure wires and cables, but with the main difference that it does not use raw materials with halogenated properties. It is also possible for customers to increase the temperature tolerance of wires and .cables by 750 degrees Celsius using mica tape

CONSTRUCTION

Conductor

Class 2 stranded copper conductors

MGT

Mika glass tape

Insulation

XLPE (Cross-linked polyethylene)

Sheath

LSFOH (Halogen Free)

CHARACTERISTICS

Voltage Rating (U₀.U) (Um)

0.6/1 (1.2) kV

Test Voltage

8.4 KV

Temperature Rating

-40°C to +80°C
0°C to +50°C

Short Circuit Temperature

+250°C

Minimum Bending Radius

12 x Overall Diameter **for Multi Core**
15 x Overall Diameter **for Single Core**

Sheath Color

Black

N2XH

CU/MGT/XLPE/ LSFOH - 0.6/1 kV Cable

Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conductor Resistance at 20°C	Short-circuit Current KA 1.sec Approx	CURRENT CARRYING CAPACITY				Capacitance $\mu\text{f.km}$ Approx	Reactance $\Omega\text{.km}$ Approx		OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
					Amps Approx		Amps Approx			Trefoil	Flat		
	Conductor mm^2		$\Omega\text{.km}$	KA 1.sec Approx	Trefoil		Flat		Trefoil			Flat	
					Ground	Air	Ground	Air					
1	16	RM.V	1.15	2.41	115	102	139	128	0.33	0.11	0.19	9.6	208
1	25	RM.V	0.727	3.73	149	139	179	173	0.35	0.10	0.18	11.2	306
1	35	RM.V	0.524	5.19	178	170	213	212	0.40	0.10	0.18	12.3	401
1	50	RM.V	0.387	7.37	211	208	251	258	0.43	0.09	0.17	13.5	518
1	70	RM.V	0.268	10.27	259	265	307	328	0.47	0.09	0.17	15.5	730
1	95	RM.V	0.193	13.88	310	326	366	404	0.55	0.09	0.16	17.2	973
1	120	RM.V	0.153	17.50	352	381	416	471	0.58	0.09	0.16	19.1	1221
1	150	RM.V	0.124	21.83	396	438	465	541	0.58	0.08	0.16	20.9	1490
1	185	RM.V	0.0991	26.87	449	507	526	626	0.58	0.08	0.16	23.0	1845
1	240	RM.V	0.0754	34.80	521	606	610	749	0.63	0.08	0.16	25.9	2395
1	300	RM.V	0.0601	43.44	587	697	689	864	0.67	0.08	0.16	28.3	2974

N2XH

CU/MGT/XLPE/ LSFOH - 0.6/1 kV Cable

Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conduc tor Resista nce at 20°C Ω.km	Short- circuit Curre nt KA 1.sec Approx	CURRENT CARRYING CAPACITY				Capacitance μf.km Approx	Reactance		OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
					Amps Approx		Ω.km Approx						
	Conductor mm ²				Trefoil		Flat			Trefoil	Flat		
					Ground	Air	Ground	Air					
2	1.5	RM	12.1	0.26	32	25	39	30	0.15	0.19	0.27	11.1	135
2	2.5	RM	7.41	0.41	43	34	51	42	0.18	0.18	0.26	12.0	163
2	4	RM	4.61	0.64	55	44	66	56	0.22	0.17	0.25	13.2	207
2	6	RM	3.08	0.94	68	57	82	71	0.25	0.16	0.24	14.3	257
2	10	RM	1.83	1.53	90	77	109	96	0.31	0.15	0.23	16.2	355

N2XH

CU/MGT/XLPE/LSFOH - 0.6/1 kV Cable

Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conduc tor Resista nce at 20°C Ω.km	Short- circuit Curre nt KA 1.sec Approx	CURRENT CARRYING CAPACITY Amps Approx				Capacitance μf.km Approx	Reactance Ω.km		OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
	Conductor mm ²				Trefoil		Flat			Trefoil	Flat		
					Ground	Air	Ground	Air					
3	1.5	RM	12.1	0.26	32	25	-	-	0.19	0.20	-	11.7	166
3	2.5	RM	7.41	0.41	43	34	-	-	0.18	0.18	-	12.7	205
3	4	RM	4.61	0.64	55	44	-	-	0.17	0.17	-	14.0	266
3	6	RM	3.08	0.94	68	57	-	-	0.16	0.17	-	15.1	336
3	10	RM	1.83	1.53	90	77	-	-	0.15	0.16	-	17.2	477
3	16	RM.V	1.15	2.41	115	102	-	-	0.35	0.15	-	18.0	629
3	25	RM.V	0.727	3.73	149	139	-	-	0.40	0.14	-	21.4	929
3	35	RM.V	0.524	5.19	178	170	-	-	0.43	0.14	-	23.8	1216

N2XH

CU/MGT/XLPE/LSFOH - 0.6/1 kV Cable

Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conduc tor Resista nce at 20°C Ω.km	Short- circuit Current KA 1.sec Approx	CURRENT CARRYING CAPACITY				Capacitance μf.km Approx	Reactance Ω.km Approx		OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx		
	Conductor mm ²				Amps Approx		Trefoil			Flat				Trefoil	Flat
					Ground	Air	Ground	Air							
3+1	25+16	RM.V	0.727	0.26	143	130	-	-	0.40	0.15	-	23.6	1122		
3+1	35+16	RM.V	0.524	0.41	173	160	-	-	0.43	0.15	-	25.6	1407		
3+1	50+25	SM	0.387	0.64	205	195	-	-	0.43	0.14	-	28.1	1874		
3+1	70+35	SM	0.268	0.94	252	247	-	-	0.47	0.14	-	32.0	2607		
3+1	95+50	SM	0.193	1.53	303	305	-	-	0.54	0.13	-	35.9	3495		
3+1	120+70	SM	0.153	2.41	346	355	-	-	0.57	0.13	-	39.5	4420		
3+1	150+70	SM	0.124	3.73	390	407	-	-	0.57	0.13	-	43.9	5289		
3+1	185+95	SM	0.0991	5.19	441	469	-	-	0.57	0.13	-	48.6	6655		
3+1	240+120	SM	0.0754	7.37	511	551	-	-	0.62	0.13	-	54.5	8585		
3+1	300+150	SM	0.0601	10.27	580	638	-	-	0.66	0.13	-	60.1	10637		

CU/MGT/XLPE/ LSFOH - 0.6/1 kV Cable

Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conduc tor Resista nce at 20°C Ω.km	Short- circuit Curre nt KA 1.sec Approx	CURRENT CARRYING CAPACITY Amps Approx				Capacitance μf.km Approx	Reactance Ω.km Approx		OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
	Conductor mm ²				Trefoil		Flat			Trefoil	Flat		
					Ground	Air	Ground	Air					
4	1.5	RM	12.1	0.26	30	24	-	-	0.19	0.20	-	12.7	177
4	2.5	RM	7.41	0.41	40	32	-	-	0.18	0.19	-	13.8	250
4	4	RM	4.61	0.64	52	42	-	-	0.17	0.18	-	15.2	329
4	6	RM	3.08	0.94	64	53	-	-	0.16	0.17	-	16.6	420
4	10	RM	1.83	1.53	86	73	-	-	0.15	0.16	-	18.9	604
4	16	RM.V	1.15	2.41	111	96	-	-	0.35	0.15	-	19.7	813
4	25	RM.V	0.727	3.73	143	130	-	-	0.40	0.15	-	23.6	1207
4	35	RM.V	0.524	5.19	173	160	-	-	0.43	0.15	-	26.2	1587

N2XH

CU/MGT/XLPE/ LSFOH - 0.6/1 kV Cable

Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conduc tor Resista nce at 20°C Ω.km	Short- circuit Curre nt KA 1.sec Approx	CURRENT CARRYING CAPACITY				Capacitance μf.km Approx	Reactance		OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
					Amps Approx					Ω.km Approx			
	Conductor mm²				Trefoil		Flat			Trefoil	Flat		
					Ground	Air	Ground	Air					
5	1.5	RM	12.1	0.26	30	24	-	-	0.19	0.20	-	12.7	220
5	2.5	RM	7.41	0.41	40	32	-	-	0.18	0.19	-	13.9	283
5	4	RM	4.61	0.64	52	42	-	-	0.17	0.18	-	15.5	381
5	6	RM	3.08	0.94	64	53	-	-	0.16	0.17	-	16.9	496
5	10	RM	1.83	1.53	86	73	-	-	0.15	0.17	-	19.5	726
5	16	RM.V	1.15	2.41	111	96	-	-	0.35	0.16	-	21.6	1014
5	25	RM.V	0.727	3.73	143	130	-	-	0.40	0.16	-	25.9	1516
5	35	RM.V	0.524	5.19	173	160	-	-	0.43	0.15	-	29.1	2016

OFOGH ALBORZ INDUSTRIAL GROUP

N2XHRH

CU/MGT/XLPE/LSFOH/SWA/LSFOH - 0.6/1 kV Cable

CABLE STANDARDS

IEC 60502-1 , ISIRI 3569-1



APPLICATION

The production structure of free halogen wires and cables is similar to the production structure of low pressure wires and cables, but with the main difference that it does not use raw materials with halogenated properties. It is also possible for customers to increase the temperature tolerance of wires and cables by 750 degrees Celsius using mica tape

CONSTRUCTION

Conductor

Class 2 stranded copper conductors

MGT

Mika glass tape

Insulation

XLPE (Cross-linked polyethylene)

Bedding

LSFOH (Halogen Free)

Armour

Single Core: Aluminum Tape

Multi Core: Steel (Galvanized) Tape

Sheath

LSFOH (Halogen Free)

CHARACTERISTICS

Voltage Rating (U₀.U) (Um)

0.6/1 (1.2) kV

Test Voltage

8.4 KV

Temperature Rating

-40°C to +80°C
0°C to +50°C

Short Circuit Temperature

+250°C

Minimum Bending Radius

12 x Overall Diameter **for Multi Core**

15 x Overall Diameter **for Single Core**

Sheath Color

Black

N2XHRH

CU/MGT/XLPE/LSFOH/STA/LSFOH - 0.6/1 kV Cable

Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conductor Resistance at 20°C Ω.km	Short-circuit Current KA 1.sec Approx	CURRENT CARRYING CAPACITY				Capacitance μf.km Approx	Reactance		OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
					Amps		Amps			Ω.km			
	Approx				Approx		Approx			Approx			
	Trefoil				Flat		Trefoil	Flat		Trefoil	Flat		
Conductor mm ²				Ground	Air	Ground	Air						
1	16	RM.V	1.15	2.41	115	102	139	128	0.33	0.13	0.21	13.8	336
1	25	RM.V	0.727	3.73	149	139	179	173	0.35	0.13	0.21	16.5	504
1	35	RM.V	0.524	5.19	178	170	213	212	0.40	0.12	0.20	17.6	612
1	50	RM.V	0.387	7.37	211	208	251	258	0.43	0.11	0.19	18.8	748
1	70	RM.V	0.268	10.27	259	265	307	328	0.47	0.11	0.19	20.8	991
1	95	RM.V	0.193	13.88	310	326	366	404	0.55	0.11	0.18	23.2	1310
1	120	RM.V	0.153	17.50	352	381	416	471	0.58	0.10	0.18	24.9	1576
1	150	RM.V	0.124	21.83	396	438	465	541	0.58	0.10	0.18	26.9	1884
1	185	RM.V	0.0991	26.87	449	507	526	626	0.58	0.10	0.18	29.0	2278
1	240	RM.V	0.0754	34.80	521	606	610	749	0.63	0.10	0.17	32.9	2971
1	300	RM.V	0.0601	43.44	587	697	689	864	0.67	0.10	0.17	35.3	3596

N2XHRH

CU/MGT/XLPE/ LSFOH/ SWA/ LSFOH - 0.6/1 kV Cable

Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conduc tor Resista nce at 20°C Ω.km	Short- circuit Curre nt KA 1.sec Approx	CURRENT CARRYING CAPACITY				Capacitance μf.km Approx	Reactance		OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
					Amps Approx		Ω.km Approx						
	Conductor mm ²				Trefoil		Flat			Trefoil	Flat		
					Ground	Air	Ground	Air					
2	1.5	RM	12.1	0.26	32	25	39	28	0.15	0.21	0.29	14.7	360
2	2.5	RM	7.41	0.41	43	34	51	42	0.18	0.20	0.28	16.5	516
2	4	RM	4.61	0.64	55	44	66	56	0.22	0.19	0.27	17.7	595
2	6	RM	3.08	0.94	68	57	82	71	0.25	0.18	0.26	18.7	669
2	10	RM	1.83	1.53	90	77	109	96	0.31	0.17	0.25	20.9	836

N2XHRH

CU/MGT/XLPE/ LSFOH/ SWA/ LSFOH - 0.6/1 kV Cable

Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conduc tor Resista nce at 20°C Ω.km	Short- circuit Curre nt KA 1.sec Approx	CURRENT CARRYING CAPACITY				Capacitance μf.km Approx	Reactance		OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
					Amps Approx					Ω.km Approx			
	Conductor mm ²				Trefoil		Flat			Trefoil	Flat		
					Ground	Air	Ground	Air					
3	1.5	RM	12.1	0.26	32	25	-	-	0.19	0.22	-	16.2	507
3	2.5	RM	7.41	0.41	43	34	-	-	0.18	0.20	-	17.1	570
3	4	RM	4.61	0.64	55	44	-	-	0.17	0.19	-	18.4	677
3	6	RM	3.08	0.94	68	57	-	-	0.16	0.18	-	19.6	772
3	10	RM	1.83	1.53	90	77	-	-	0.15	0.18	-	22.6	1108
3	16	RM.V	1.15	2.41	115	102	-	-	0.35	0.16	-	23.3	1297
3	25	RM.V	0.727	3.73	149w	139	-	-	0.40	0.16	-	27.0	1740
3	35	RM.V	0.524	5.19	178	170	-	-	0.43	0.15	-	29.6	2120

N2XHRH

CU/MGT/XLPE/LSFOH/SWA/LSFOH – 0.6/1 kV Cable

Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conduc tor Resista nce at 20°C Ω.km	Short- circuit Current KA 1.sec Approx	CURRENT CARRYING CAPACITY				Capacitance μf.km Approx	Reactance		OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
					Amps		Amps			Ω.km			
	Approx				Approx		Approx			Trefoil	Flat		
	Trefoil				Flat								
Conductor mm ²				Ground	Air	Ground	Air						
3+1	25+16	RM.V	0.727	0.26	143	130	-	-	0.40	0.16	-	29.4	2017
3+1	35+16	RM.V	0.524	0.41	173	160	-	-	0.43	0.16	-	31.6	2378
3+1	50+25	SM	0.387	0.64	205	195	-	-	0.43	0.15	-	34.9	3167
3+1	70+35	SM	0.268	0.94	252	247	-	-	0.47	0.15	-	39.0	4095
3+1	95+50	SM	0.193	1.53	303	305	-	-	0.54	0.14	-	42.9	5140
3+1	120+70	SM	0.153	2.41	346	355	-	-	0.57	0.14	-	47.9	6698
3+1	150+70	SM	0.124	3.73	390	407	-	-	0.57	0.14	-	52.5	7828
3+1	185+95	SM	0.0991	5.19	441	469	-	-	0.57	0.14	-	57.4	9459
3+1	240+120	SM	0.0754	7.37	511	551	-	-	0.62	0.14	-	63.5	11751
3+1	300+150	SM	0.0601	10.27	580	638	-	-	0.66	0.14	-	69.3	14128

N2XHRH

CU/MGT/XLPE/LSFOH/SWA/LSFOH - 0.6/1 kV Cable

Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conductor Resistance at 20°C $\Omega.km$	Short-circuit Current KA 1.sec Approx	CURRENT CARRYING CAPACITY Amps Approx				Capacitance $\mu f.km$ Approx	Reactance $\Omega.km$ Approx		OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
	Conductor mm^2				Trefoil		Flat			Trefoil	Flat		
					Ground	Air	Ground	Air					
4	1.5	RM	12.1	0.26	30	24	-	-	0.19	0.23	-	17.2	553
4	2.5	RM	7.41	0.41	40	32	-	-	0.18	0.21	-	18.3	650
4	4	RM	4.61	0.64	52	42	-	-	0.17	0.20	-	19.7	775
4	6	RM	3.08	0.94	64	53	-	-	0.16	0.20	-	21.9	1032
4	10	RM	1.83	1.53	86	73	-	-	0.15	0.19	-	24.2	1292
4	16	RM.V	1.15	2.41	111	96	-	-	0.35	0.17	-	25.1	1531
4	25	RM.V	0.727	3.73	143	130	-	-	0.40	0.16	-	29.4	2101
4	35	RM.V	0.524	5.19	173	160	-	-	0.43	0.16	-	33.2	2816

N2XHRH

CU/MGT/XLPE/LSFOH/SWA/LSFOH - 0.6/1 kV Cable

Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conduc tor Resista nce at 20°C Ω.km	Short- circuit Curre nt KA 1.sec Approx	CURRENT CARRYING CAPACITY				Capacitance μf.km Approx	Reactance		OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
					Amps Approx		Ω.km Approx						
	Conductor mm²				Trefoil		Flat			Trefoil	Flat		
					Ground	Air	Ground	Air					
5	1.5	RM	12.1	0.26	30	24	-	-	0.19	0.29	-	17.2	596
5	2.5	RM	7.41	0.41	40	32	-	-	0.18	0.27	-	18.3	683
5	4	RM	4.61	0.64	52	42	-	-	0.17	0.27	-	20.0	828
5	6	RM	3.08	0.94	64	53	-	-	0.16	0.26	-	22.3	1126
5	10	RM	1.83	1.53	86	73	-	-	0.15	0.25	-	24.9	1450
5	16	RM.V	1.15	2.41	111	96	-	-	0.35	0.17	-	27.2	1827
5	25	RM.V	0.727	3.73	143	130	-	-	0.40	0.17	-	32.9	2752
5	35	RM.V	0.524	5.19	173	160	-	-	0.43	0.17	-	36.1	3376

OFOGH ALBORZ INDUSTRIAL GROUP

CABLE STANDARDS

IEC 60502-1 , ISIRI 3569-1



APPLICATION

The production structure of free halogen wires and cables is similar to the production structure of low pressure wires and cables, but with the main difference that it does not use raw materials with halogenated properties. It is also possible for customers to increase the temperature tolerance of wires and cables by 750 degrees Celsius using mica tape

CONSTRUCTION

Conductor

Class 5 stranded copper conductors

MGT

Mika glass tape

Insulation

XLPE (Cross-linked polyethylene)

Sheath

LSFOH (Halogen Free)

CHARACTERISTICS

Voltage Rating (U₀.U) (Um)

0.6/1 (1.2) kV

Test Voltage

8.4 KV

Temperature Rating

-40°C to +80°C
0°C to +50°C

Short Circuit Temperature

+250°C

Minimum Bending Radius

12 x Overall Diameter **for Multi Core**
15 x Overall Diameter **for Single Core**

Sheath Color

Black

N2XH-F

CU/MGT/XLPE/ LSFOH - 0.6/1 kV Cable

Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conductor Resistance at 20°C $\Omega.km$	Short-circuit Current KA 1.sec Approx	CURRENT CARRYING CAPACITY				Capacitance $\mu f.km$ Approx	Reactance		OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
					Amps		Amps			$\Omega.km$			
	Approx				Approx		Approx			Approx			
	Conductor mm^2				Trefoil		Flat			Trefoil	Flat		
				Ground	Air	Ground	Air						
1	16	RM/F	1.21	2.41	115	102	139	128	0.33	0.10	0.18	10.3	225
1	25	RM/F	0.780	3.73	149	139	179	173	0.35	0.10	0.18	12.0	327
1	35	RM/F	0.554	5.19	178	170	213	212	0.40	0.10	0.17	13.3	426
1	50	RM/F	0.386	7.37	211	208	251	258	0.43	0.09	0.17	15.2	582
1	70	RM/F	0.272	10.27	259	265	307	328	0.47	0.09	0.16	17.4	766
1	95	RM/F	0.206	13.88	310	326	366	404	0.55	0.08	0.16	19.7	1032
1	120	RM/F	0.161	17.50	352	381	416	471	0.58	0.08	0.16	21.6	1274
1	150	RM/F	0.129	21.83	396	438	465	541	0.58	0.08	0.16	23.8	1552
1	185	RM/F	0.106	26.87	449	507	526	626	0.58	0.08	0.16	26.1	1868
1	240	RM/F	0.0801	34.80	521	606	610	749	0.63	0.08	0.16	29.3	2432

N2XH-F

CU/MGT/XLPE/ LSFOH - 0.6/1 kV Cable

Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conduc tor Resista nce at 20°C Ω.km	Short- circuit Curre nt KA 1.sec Approx	CURRENT CARRYING CAPACITY				Capacitance μf.km Approx	Reactance		OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
					Amps Approx					Ω.km Approx			
	Conductor mm²				Trefoil		Flat			Trefoil	Flat		
					Ground	Air	Ground	Air					
2	1.5	RM/F	13.3	0.26	32	25	39	30	0.15	0.26	0.34	11.0	130
2	2.5	RM/F	7.98	0.41	43	34	51	42	0.18	0.25	0.32	11.9	158
2	4	RM/F	4.95	0.64	55	44	66	56	0.22	0.24	0.32	13.0	197
2	6	RM/F	3.30	0.94	68	57	82	71	0.25	0.23	0.31	14.1	244
2	10	RM/F	1.91	1.53	90	77	109	96	0.31	0.22	0.30	15.9	337

N2XH-F

CU/MGT/XLPE/ LSFOH - 0.6/1 kV Cable

Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conduc tor Resista nce at 20°C Ω.km	Short- circuit Curre nt KA 1.sec Approx	CURRENT CARRYING CAPACITY				Capacitance μf.km Approx	Reactance Ω.km		OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
					Amps Approx					Trefoil	Flat		
	Trefoil				Flat								
	Ground	Air			Ground	Air							
3	1.5	RM/F	13.3	0.26	32	25	-	-	0.19	0.26	-	11.6	159
3	2.5	RM/F	7.98	0.41	43	34	-	-	0.18	0.25	-	12.6	197
3	4	RM/F	4.95	0.64	55	44	-	-	0.17	0.24	-	13.7	251
3	6	RM/F	3.30	0.94	68	57	-	-	0.16	0.24	-	14.9	318
3	10	RM/F	1.91	1.53	90	77	-	-	0.15	0.23	-	16.9	451

N2XH-F

CU/MGT/XLPE/LSFOH - 0.6/1 kV Cable

Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conduc tor Resista nce at 20°C Ω.km	Short- circuit Curre nt KA 1.sec Approx	CURRENT CARRYING CAPACITY				Capacitance μf.km Approx	Reactance		OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
					Amps Approx		Approx			Ω.km Approx			
	Conductor mm ²				Trefoil		Flat			Trefoil	Flat		
					Ground	Air	Ground	Air					
4	1.5	RM/F	13.3	0.26	30	24	-	-	0.19	0.27	-	12.6	190
4	2.5	RM/F	7.98	0.41	40	32	-	-	0.18	0.26	-	13.7	240
4	4	RM/F	4.95	0.64	52	42	-	-	0.17	0.25	-	15.0	309
4	6	RM/F	3.30	0.94	64	53	-	-	0.16	0.24	-	16.3	397
4	10	RM/F	1.91	1.53	86	73	-	-	0.15	0.23	-	18.6	570

N2XH-F

CU/MGT/XLPE/ LSFOH - 0.6/1 kV Cable

Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conduc tor Resista nce at 20°C Ω.km	Short- circuit Curre nt KA 1.sec Approx	CURRENT CARRYING CAPACITY				Capacitance μf.km Approx	Reactance		OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
					Amps Approx					Ω.km Approx			
	Conductor mm ²				Trefoil		Flat			Trefoil	Flat		
					Ground	Air	Ground	Air					
5	1.5	RM/F	13.3	0.26	30	24	-	-	0.19	0.27	-	12.6	209
5	2.5	RM/F	7.98	0.41	40	32	-	-	0.18	0.26	-	13.8	271
5	4	RM/F	4.95	0.64	52	42	-	-	0.17	0.25	-	15.2	357
5	6	RM/F	3.30	0.94	64	53	-	-	0.16	0.24	-	16.7	467
5	10	RM/F	1.91	1.53	86	73	-	-	0.15	0.23	-	19.2	684