



LIHCH



Kullanım Alanları

HFFR izole ve kılıflı kablolar, elektrik ve elektronik cihazlar arasında bilgi alışverişini sağlamak için kullanılan düşük duman yoğunluklu ve halogen gazı içermeyen yalıtım ve kılıflı kablolardır. Ekranlı olan bu kablolar otellerde, fabrikalarda, alışveriş merkezlerinden apartmanlara kadar her alanda kullanılmaktadır.

Talep edildiği takdirde numara kodlu olarak aşağıda belirtilen tipler üretilir.

LIHCH-OZ: Damarlar Siyah/Beyaz numara kodlu

LIHCH-JZ: Toprak koruma damarlı (Sarı/Yeşil), damarlar Siyah/Beyaz numara kodlu

Kablo Yapısı

İç İletken

Elektrolitik Bükülü Bakır Tel
Sınıf 5 IEC 60228, DIN VDE EN 0295

İzolasyon

HFFR, DIN 47100 İzole renk uygulamasına uygun
EN 50290-2-26

Büküm

Grup halinde bükülü damarlar

Polyester

Pet Bant

Örgü

Kalaylı Bakır Tellerden Örgü

Dış Kılıf

HFFR*, RAL 7001 Gri
EN 50290-2-27

Teknik Özellikler

Çalışma Sıcaklığı

-30°C ... + 70°C

Min. Bük. Yarı Çapı

15 x Kablo Çapı

İzolasyon Direnci

200 MΩ km

Çalışma Gerilimi

0.22 mm² - 0.34 mm²

250 V

≥ 0.50 mm²

300/500 V

Test Gerilimi

0.22 mm² - 0.34 mm²

1200 V

≥ 0.50 mm²

2000 V

Ambalaj

500 / 1000 m

Standartlar

TS EN 13755, DIN VDE 0812

CPR Sınıfı

B2_{ca}, s1a, d0, a1

Alev Geciktiricilik

EN 60332-1-2

Korozif Gaz Testi

TS EN 60754-2

Duman Yoğunluğu

EN 61034-2

EMC

Elektromanyetik uyumlu

Application

These cables are used for connections in the electronic control technology, signal and data transmission cables for voice frequency transmissions. Thanks to the HFFR material that is used in these cables, they are flame retardant, moreover they do not extract poisonous gases and black smoke when they are in fire. These cables are used in the hotels, factories, shopping centers, and apartments.

If there is a request from this cables as number coded, it can be able to produce the following types.

LIHCH-OZ: Cores number coded and Black/White color

LIHCH-JZ: Green/Yellow earthing core, cores number coded and Black/White color

Cable Construction

Inner Conductor

Stranded Electrolytic Bare Copper
Class 5 IEC 60228, DIN VDE 0295

Insulation

HFFR, DIN 47100 Suitable for isolated color
EN 50290-2-26

Stranding

Twisted in group

Polyester

Pet Bant

Screen

Tinned Copper Braid Wire

Outer Sheath

HFFR*, RAL 7001 Grey
EN 50290-2-27

Technical Properties

Operating Temperature

-30°C ... + 70°C

Min. Bending Radius

15 x Cable Diameter

Insulation Resistance

200 MΩ km

Operating Voltage

0.22 mm² - 0.34 mm²

250 V

≥ 0.50 mm²

300/500 V

Test Voltage

0.22 mm² - 0.34 mm²

1200 V

≥ 0.50 mm²

2000 V

Packing

500 / 1000 m

Standards

TS EN 13755, DIN VDE 0812

Euro Class

B2_{ca}, s1a, d0, a1

Flame Retardancy

EN 60332-1-2

Corrosive Gases Test

TS EN 60754-2

Smoke Density

EN 61034-2

EMC

Electromagnetic compatible

İletken Çapı Cross Section (mm ²)	İletken Direnci Conductor Resistance (Ohm/km @ 20 °C)
0.22	96.00
0.34	56.00
0.50	39.00
0.75	26.00
1.00	19.50
1.50	13.30
2.50	7.98

Damar Sayısı x Kesit No. Of Cores x Cross Section (mm ²)	Kablo Çapı Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Cable Weight (kg/km)
2 x 0.22	4.3	9.1	22
3 x 0.22	4.6	13.8	26
4 x 0.22	5.0	16.0	30
5 x 0.22	5.2	18.7	34
6 x 0.22	5.8	21.3	41
7 x 0.22	5.8	24.2	50
8 x 0.22	6.3	28.0	54
9 x 0.22	6.8	31.0	58
10 x 0.22	6.8	33.2	68
12 x 0.22	7.1	38.0	73
14 x 0.22	7.6	43.0	84
16 x 0.22	8.0	48.5	97
18 x 0.22	8.8	54.0	105
20 x 0.22	8.8	58.0	114
25 x 0.22	9.6	72.0	137
2 x 0.34	4.9	15.6	30
3 x 0.34	5.2	20.8	38
4 x 0.34	5.6	24.1	44
5 x 0.34	6.0	29.4	53
6 x 0.34	6.5	32.9	60
7 x 0.34	6.5	36.1	65
8 x 0.34	7.7	43.0	81
9 x 0.34	8.3	47.2	86
10 x 0.34	8.3	58.1	100
12 x 0.34	8.6	64.9	113
14 x 0.34	9.0	71.9	124
16 x 0.34	9.6	78.8	141
18 x 0.34	10.4	89.9	160
20 x 0.34	10.4	92.0	163
25 x 0.34	11.7	115.1	205
2 x 0.50	5.1	20.7	34
3 x 0.50	5.4	25.7	45
4 x 0.50	5.8	30.6	51
5 x 0.50	6.3	37.6	63
6 x 0.50	6.8	42.7	71
7 x 0.50	6.8	47.5	80
8 x 0.50	8.3	56.4	91
9 x 0.50	8.8	62.0	110
10 x 0.50	8.8	74.6	120
12 x 0.50	9.0	84.7	136
14 x 0.50	9.6	94.8	155
16 x 0.50	10.1	109.1	175
18 x 0.50	11.0	119.5	193
20 x 0.50	11.0	127.0	224
25 x 0.50	12.6	169.4	271

Damar Sayısı x Kesit No. Of Cores x Cross Section (mm ²)	Kablo Çapı Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Cable Weight (kg/km)
2 x 0.75	5.7	25.8	44
3 x 0.75	6.0	35.0	57
4 x 0.75	6.5	42.5	69
5 x 0.75	7.1	52.1	83
6 x 0.75	7.7	59.7	94
7 x 0.75	7.7	67.0	104
8 x 0.75	8.7	76.0	115
9 x 0.75	10.0	85.0	124
10 x 0.75	10.0	104.3	161
12 x 0.75	10.4	119.2	184
14 x 0.75	10.9	134.5	206
16 x 0.75	11.5	150.0	231
18 x 0.75	12.1	165.5	254
20 x 0.75	12.1	184.0	281
25 x 0.75	14.4	234.2	358
2 x 1.00	5.9	31.0	50
3 x 1.00	6.3	42.0	67
4 x 1.00	6.9	52.0	80
5 x 1.00	7.6	64.0	98
6 x 1.00	8.5	84.0	121
7 x 1.00	8.5	93.0	134
8 x 1.00	9.4	102.0	152
9 x 1.00	10.6	114.0	170
10 x 1.00	10.6	129.0	190
12 x 1.00	10.8	149.0	218
14 x 1.00	11.4	169.0	244
16 x 1.00	12.0	189.0	273
18 x 1.00	13.1	223.0	324
20 x 1.00	13.1	238.0	364
25 x 1.00	15.0	304.0	435
2 x 1.50	6.9	43.0	69
3 x 1.50	7.3	58.0	89
4 x 1.50	8.2	82.0	121
5 x 1.50	8.9	97.0	142
6 x 1.50	9.9	112.0	170
7 x 1.50	9.9	127.0	190
8 x 1.50	11.0	143.0	211
9 x 1.50	12.5	162.0	261
10 x 1.50	12.5	191.0	281
12 x 1.50	13.2	220.0	321
14 x 1.50	13.9	250.0	363
16 x 1.50	14.6	280.0	407
18 x 1.50	15.8	318.0	466
20 x 1.50	15.8	342.0	505
25 x 1.50	18.2	425.0	620

Damar Sayısı x Kesit No. Of Cores x Cross Section (mm ²)	Kablo Çapı Overall Diameter (mm)	Bakır Ağırlığı Copper Weight (kg/km)	Kablo Ağırlığı Cable Weight (kg/km)
2 x 2.50	7.9	64.0	91
3 x 2.50	8.6	97.0	134
4 x 2.50	9.6	122.0	171
5 x 2.50	10.5	150.0	210
6 x 2.50	11.4	175.0	244
7 x 2.50	11.4	199.0	275
8 x 2.50	14.0	220.0	323
9 x 2.50	14.8	240.0	361
10 x 2.50	14.8	298.0	410
12 x 2.50	15.5	346.0	480
14 x 2.50	16.3	396.0	544
16 x 2.50	17.2	446.0	610
18 x 2.50	18.5	496.0	651
20 x 2.50	18.5	534.0	681
25 x 2.50	21.4	671.0	917