

kablem

CABLE

Yapı ve Enerji Kabloları
Veri, Bilgisayar Koaksiyel ve Cctv Kabloları
Construction & Power Transmission Cables
Data, Computer, Coaxial and Cctv Cables



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ABOUT US

Owing to working with automotive sector since the establishment, together with the cable brand "KABLEM" ECS is specialized in the fields of process discipline, quality standards, customer management, process management, just in time delivery system and started to gain an important place in the market. As an owner of system certificates[ISO 9001, TS16949 , ISO 14001 and OHSAS 18001] and capability of making customized designs, Kablem made difference between the rivals in the sector.

As Kablem Cable , within the frame of world standards , one of our main target is to lead to new ideas and meet the requirements of sector by taking advantage of new technology opportunities. Established the business by abiding these principles, we improve ourselves continuously by taking into account our environmental responsibilities.

QUALITY CERTIFICATES



ISO 9001



ISO 14001



OHSAS 18001



ISO TS 16949



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Yapı ve Enerji Kabloları

Construction & Power Transmission Cables

H05V-U / H07V-U / H07V-R

Özellikler / Features

450/750 V Pvc izoleli tek damarlı tesisat kabloları

450/750 V Pvc insulation cable

Kablo Yapısı / Cable Structure

1. İletken: Tek telli som bakır
2. İzole: PVC

1. Conductor: Rigit copper
2. Insulation: PVC

Nominal Kesit	Bakır faktörü	Kablo dış çapı [yaklaşık]	Net ağırlık [yaklaşık]	20 °C'de iletken DA direnci	Akım taşıma kapasitesi		Sevk uzunluğu [yaklaşık]
					boru içinde	havada	
Rated Cross-section	Cu factor 1000 m	Overall diameter of cable [approx.]	Net weight [approx.]	Conductor DC resistance at 20 °C	Current carrying capacity in conduit	air	Delivery length [approx.]
mm ²		mm	kg / km	ohm / km	A	A	m
H05V-U							300/500 V
0,5	4,8	2	8,5	36	-	12	100
0,75	7,2	2,2	12	24,5	-	15	100
1	9,6	2,4	13	18,1	-	19	100
H07V-U							450/750 V
1,5	14,4	2,7	21	12,1	14,5*	24	100
2,5	24,0	3,2	34	7,41	19,5	32	100
4	38,0	3,7	50	4,61	26	42	100
6	58,0	4,2	71	3,08	34	54	100
10	96,0	5,4	116	1,83	46	73	100
H07V-R							450/750 V
16	154,0	6,9	181	1,15	61	98	100
25	240,0	8,2	280	0,727	80	129	100
35	336,0	9,3	382	0,524	99	158	100
50	480,0	10,8	542	0,387	119	198	1000
70	672,0	12,4	745	0,268	151	245	1000
95	912,0	14,5	1010	0,193	182	292	1000
120	1152,0	15,9	1260	0,153	210	344	1000
150	1440,0	17,7	1575	0,124	240	391	1000
185	1776,0	19,8	1945	0,0991	273	448	1000
240	2304,0	22,8	2520	0,0754	320	528	1000



H05Z1-U / H05Z1-K

Özellikler / Features

450/750 V HFFR izoleli tek damarlı tesisat kabloları

450/750 V HFFR insulation cable

Kablo Yapısı / Cable Structure

1. **İletken:** Çok telli som bakır
2. **İzole:** HFFR

1. **Conductor:** Flexible copper
2. **Insulation:** HFFR

Test Voltajı: 2500 V

Çalışma Gerilimi: 450/750 V

Çalışma Sıcaklığı Hareketli: -5°C / +70°C

Çalışma Sıcaklığı Sabit: -25°C / +90°C

Test Voltage: 2500 V

Operating Voltage: 450/750 V

Temperature Range Moved: -5°C / +70°C

Temperature Range Static: -25°C / +90°C

Nominal Kesit	Bakır faktörü	Kablo dış çapı [yaklaşık]	Net ağırlık [yaklaşık]	20 °C'de iletken DA direnci	Akım taşıma kapasitesi		Sevk uzunluğu [yaklaşık]	
					boru içinde	havada		
Rated Cross-section	Cu factor 1000 m	Overall diameter of cable [approx.]	Net weight [approx.]	Conductor DC resistance at 20 °C	Current carrying capacity in conduit	air	Delivery length [approx.]	
mm ²		mm	kg / km	ohm / km	A	A	m	
H05Z1-U							300/500 V	
0,5	4,8	2	10	36	-	12	100	
0,75	7,2	2,2	13	24,5	-	15	100	
1	9,6	2,4	16	18,1	-	19	100	
H05Z1-K							300/500 V	
0,5	4,8	2	11	39	-	12	100	
0,75	7,2	2,2	16	26	-	15	100	
1	9,6	2,4	18	19,5	11	19	100	

H05V-K / H07V-K

Özellikler / Features

450/750 V Pvc izoleli tek damarlı tesisat kabloları

450/750 V Pvc insulation cable

Kablo Yapısı / Cable Structure

1. İletken: Çok telli som bakır
2. İzole: PVC

1. Conductor: Flexible copper
2. Insulation: PVC

Nominal Kesit	Bakır faktörü	Kablo dış çapı [yaklaşık]	Net ağırlık [yaklaşık]	20 °C'de iletken DA direnci	Akım taşıma kapasitesi		Sevk uzunluğu [yaklaşık]
					boru içinde	havada	
Rated Cross-section	Cu factor 1000 m	Overall diameter of cable [approx.]	Net weight [approx.]	Conductor DC resistance at 20 °C	Current carrying capacity in conduit	air	Delivery length [approx.]
mm ²		mm	kg / km	ohm / km	A	A	m
H05V-K							300/500 V
0,5	4,8	2	8,5	39	-	12	100
0,75	7,2	2,2	11	26	-	15	100
1	9,6	2,4	13	19,5	11	19	100
H07V-K							450/750 V
1,5	14,4	2,8	19	13,3	14,5*	24	100
2,5	24,0	3,4	30	7,98	19,5	32	100
4	38,0	3,9	44	4,95	26	42	100
6	58,0	4,4	63	3,3	34	54	100
10	96,0	6,1	112	1,91	46	73	100
16	154,0	7,4	169	1,21	61	98	100
25	240,0	9,0	251	0,78	80	129	100
35	336,0	10,9	369	0,554	99	158	1000
50	480,0	12,7	528	0,386	119	198	1000
70	672,0	14,7	730	0,272	151	245	1000
95	912,0	16,9	969	0,206	182	292	1000
120	1152,0	18,8	1212	0,161	210	344	1000
150	1140	21,0	1521	0,129	240	391	1000
185	1776	23,3	1857	0,106	273	448	1000
240	2304	26,6	2443	0,080	320	528	1000



H07Z1-U / H07Z1-R / H07Z1-K

Özellikler / Features

450/750 V HFFR izoleli tek damarlı tesisat kabloları

450/750 V HFFR insulation cable

Kablo Yapısı / Cable Structure

1. **İletken:** Tek telli som bakır
2. **İzole:** HFFR
1. **Conductor:** Rigit copper
2. **Insulation:** HFFR

Nominal Kesit	Bakır faktörü	Kablo dış çapı [yaklaşık]	Net ağırlık [yaklaşık]	20 °C'de iletken DA direnci	Satın üzerinde akım taşıma kapasitesi	Sevk uzunluğu [yaklaşık]
Rated Cross-section	Cu factor 1000 m	Overall diameter of cable [approx.]	Net weight [approx.]	Conductor DC resistance at 20 °C	Current carrying capacity on surface	Delivery length [approx.]
mm ²		mm	kg / km	ohm / km	A	m
H07Z1-U						450/750 V
1,5	14,4	2,7	21	12,10	24	100
2,5	24,0	3,3	34	7,41	32	100
4	38,0	3,7	50	4,61	42	100
6	58,0	4,2	71	3,08	54	100
10	96,0	5,4	116	1,83	73	100
H07Z1-R						450/750 V
16	154,0	7,0	181	1,150	98	100
25	240,0	8,4	280	0,727	129	100
35	336,0	9,4	382	0,524	158	100
50	480,0	11,0	542	0,387	198	1000
70	672,0	12,6	745	0,268	245	1000
H07Z1-K						450/750 V
1,5	14,4	2,8	19	13,30	24	100
2,5	24,0	3,4	30	7,98	32	100
4	38,0	3,9	44	4,95	42	100
6	58,0	4,4	63	3,30	54	100
10	96,0	5,8	112	1,91	73	100

H05VV-F / H03VV-K

Özellikler / Features

450/750 V Pvc izoleli çok damarlı kablolar

450/750 V Pvc insulation cable

Kablo Yapısı / Cable Structure

1. **İletken:** Çok telli som bakır
2. **İzole:** PVC
3. **Kılıf:** PVC

1. **Conductor:** flexible copper
2. **Insulation:** PVC
3. **Sheath:** PVC

Nominal Kesit	Bakır faktörü	Kablo dış çapı [yaklaşık]	Net ağırlık [yaklaşık]	20 °C'de iletken DA direnci	Sath üzerinde akım taşıma kapasitesi	Sevk uzunluğu [yaklaşık]
Rated Cross-section	Cu factor 1000 m	Overall diameter of cable [approx.]	Net weight [approx.]	Conductor DC resistance at 20 °C	Current carrying capacity on surface	Delivery length [approx.]
mm ²		mm	kg / km	ohm / km	A	m
2 Damarlı / 2 cores						300/500 V
2 x 0,75	14,4	5,9	55	26,0	6	100
2 x 1	19,0	6,3	64	19,5	10	100
2 x 1,5	29,0	7,2	87	13,3	16	100
2 x 2,5	48,0	8,9	133	7,98	25	100
3 Damarlı / 3 cores						300/500 V
3 x 0,75	21,6	6,3	65	26	6	100
3 x 1	29,0	6,7	75	19,5	10	100
3 x 1,5	43,0	7,8	106	13,3	16	100
3 x 2,5	72,0	7,6	163	7,98	25	100
4 Damarlı / 4 cores						300/500 V
4 x 0,75	29,0	6,8	77	26,0	6	100
4 x 1	38,0	7,4	93	19,5	10	100
4 x 1,5	58,0	8,7	131	13,3	16	100
4 x 2,5	96,0	10,5	197	7,98	20	100



H05V2V2-F

Özellikler / Features

450/750 V 105 C° PVC izoleli kablolar

450/750 V 105 C° PVC insulation cable

Kablo Yapısı / Cable Structure

1. **İletken:** Çok telli som bakır
2. **İzole:** 105 C° PVC
3. **Kılıf:** 105 C° PVC

1. **Conductor:** Flexible copper
2. **Insulation:** 105 C° PVC
3. **Sheath:** 105 C° PVC

Nominal Kesit	Kablo dış çapı (yaklaşık)	Net ağırlık (yaklaşık)	20 °C'de iletken DA direnci	Akım taşıma kapasitesi		Sevk uzunluğu (yaklaşık)
				Boruda 20 °C' de A	Havada 30°C'de A	
Rated Cross-section	Overall diameter of cable [approx.]	Net weight [approx.]	Conductor DC resistance at 20 °C	Current carrying capacity conduit	air	Delivery length [approx.]
mm ²	mm	kg / km	ohm / km	A	A	m
300/500 V						
2 x 0,75	6,2	51	26	-	13	100
2 x 1	6,6	63	19,5	-	16	100
2 x 1,5	7,6	85	13,3	-	20	100
2 x 2,5	9,2	129	7,98	-	28	100
2 x 4	10,6	181	4,95	-	35	100
3 x 0,75	6,5	64	26	-	13	100
3 x 1	7,2	78	19,5	-	16	100
3 x 1,5	8,5	110	13,3	-	20	100
3 x 2,5	9,9	162	7,98	-	27	100
3 x 4	11,4	229	4,95	-	34	100
4 x 0,75	7,1	74	26	-	13	100
4 x 1	7,8	96	19,5	-	16	100
4 x 1,5	9,2	135	13,3	-	20	100
4 x 2,5	10,9	201	7,98	-	27	100
4 x 4	12,5	286	4,95	-	34	100
5 x 0,75	8	92	26	-	13	100
5 x 1	8,6	116	19,5	-	16	100
5 x 1,5	10,3	169	13,3	-	20	100
5 x 2,5	12,1	250	7,98	-	27	100
5 x 4	14,1	360	4,95	-	34	100

N2XY

Özellikler / Features

0.6 / 1 Kv XLPE izoleli tesisat kabloları

0.6 / 1 Kv XLPE insulation cable

Kablo Yapısı / Cable Structure

1. **İletken:** Tek telli som bakır
2. **İzole:** XLPE
3. **Dolgu:** PVC
4. **Kılıf:** PVC

1. **Conductor:** Rigit copper
2. **Insulation:** XLPE
3. **Filler:** PVC
4. **Sheath:** PVC

Nominal Kesit	Bakır faktörü	Kablo dış çapı [yaklaşık]	Net ağırlık [yaklaşık]	20 °C'de iletken DA direnci	Akım taşıma kapasitesi				Sevk uzunluğu [yaklaşık]
					boru içinde		havada		
Rated Cross-section	Cu factor 1000 m	Overall diameter of cable [approx.]	Net weight [approx.]	Conductor DC resistance at 20 °C	Current carrying capacity in conduit		air		Delivery length [approx.]
mm ²		mm	kg / km	ohm / km	A	A	A	A	m
1 Damarlı / 1 cores									0,6/1kV
1 x 4	38	6,5	75	4,61	66	54	56	40	1000
1 x 6	58	7,0	96	3,08	82	67	73	53	1000
1 x 10	96	7,8	137	1,83	109	89	101	74	1000
1 x 16	154	8,7	196	1,150	139	115	137	101	1000
2 Damarlı / 2 cores									0,6/1kV
2 x 1,5	29	9,5	137	12,1	37		26		1000
2 x 2,5	48	10,6	186	7,41	49		36		1000
2 x 4	77	11,5	215	4,61	64		49		1000
2 x 6	115	12,5	272	3,08	79		63		1000
3 Damarlı / 3 cores									0,6/1kV
3 x 1,5	43	10,2	154	12,1	31		23		1000
3 x 2,5	72	11,1	195	7,41	40		32		1000
3 x 4	115	12,1	254	4,61	52		42		1000
3 x 6	173	13,1	325	3,08	64		54		1000



N2XH

Özellikler / Features

0.6 / 1 Kv XLPE izoleli tesisat kabloları

0.6 / 1 Kv XLPE insulation cable

Kablo Yapısı / Cable Structure

1. **İletken:** Tek telli som bakır
2. **İzole:** XLPE
3. **Dolgu:** HFFR
4. **Kılıf:** HFFR

1. **Conductor:** Rigit copper
2. **Insulation:** XLPE
3. **Filler:** HFFR
4. **Sheath:** HFFR

Nominal Kesit	Bakır faktörü	Kablo dış çapı [yaklaşık]	Net ağırlık [yaklaşık]	20 °C'de iletken DA direnci	Akım taşıma kapasitesi				Sevk uzunluğu [yaklaşık]
					boru içinde		havada		
Rated Cross-section	Cu factor 1000 m	Overall diameter of cable [approx.]	Net weight [approx.]	Conductor DC resistance at 20 °C	Current carrying capacity in conduit		air		Delivery length [approx.]
mm ²		mm	kg / km	ohm / km	A	A	A	A	m
1 Damarlı / 1 cores									
0,6/1kV									
1 x 4	38	6,5	75	4,61	66	54	56	40	1000
1 x 6	58	7,0	96	3,08	82	67	73	53	1000
1 x 10	96	7,8	137	1,83	109	89	101	74	1000
1 x 16	154	8,7	196	1,150	139	115	137	101	1000
2 Damarlı / 2 cores									
0,6/1kV									
2 x 1,5	29	9,5	137	12,1	37		26		1000
2 x 2,5	48	10,6	186	7,41	49		36		1000
2 x 4	77	11,5	215	4,61	64		49		1000
2 x 6	115	12,5	272	3,08	79		63		1000
3 Damarlı / 3 cores									
0,6/1kV									
3 x 1,5	43	10,2	154	12,1	31		23		1000
3 x 2,5	72	11,1	195	7,41	40		32		1000
3 x 4	115	12,1	254	4,61	52		42		1000
3 x 6	173	13,1	325	3,08	64		54		1000

NHXH-FE 180/E30 - E60

Özellikler / Features

0.6 / 1 Kv Seramikleşen silikon izoleli tesisat kabloları
0.6 / 1 Kv Cross-linked ceramic forming insulation cable

Kablo Yapısı / Cable Structure

1. **İletken:** Tek telli som bakır
 2. **İzole:** Seramikleşen silikon
 3. **Dolgu:** HFFR
 4. **Kılıf:** HFFR
1. **Conductor:** Rigit copper
 2. **Insulation:** Cross-linked ceramic
 3. **Filler:** HFFR
 4. **Sheath:** HFFR

Nominal Kesit	Bakır faktörü	Kablo dış çapı [yaklaşık]	Net ağırlık [yaklaşık]	20 °C'de iletken DA direnci	Akım taşıma kapasitesi				Sevk uzunluğu [yaklaşık]
					boru içinde		havada		
Rated Cross-section	Cu factor 1000 m	Overall diameter of cable [approx.]	Net weight [approx.]	Conductor DC resistance at 20 °C	Current carrying capacity in conduit		air		Delivery length [approx.]
mm ²		mm	kg / km	ohm / km	A	A	A	A	m
1 Damarlı / 1 cores									0,6/1kV
1 x 4	38	6,5	75	4,61	66	54	56	40	1000
1 x 6	58	7,0	96	3,08	82	67	73	53	1000
1 x 10	96	7,8	137	1,83	109	89	101	74	1000
1 x 16	154	8,7	196	1,150	139	115	137	101	1000
2 Damarlı / 2 cores									0,6/1kV
2 x 1,5	29	9,5	137	12,1	37		26		1000
2 x 2,5	48	10,6	186	7,41	49		36		1000
2 x 4	77	11,5	215	4,61	64		49		1000
2 x 6	115	12,5	272	3,08	79		63		1000
3 Damarlı / 3 cores									0,6/1kV
3 x 1,5	43	10,2	154	12,1	31		23		1000
3 x 2,5	72	11,1	195	7,41	40		32		1000
3 x 4	115	12,1	254	4,61	52		42		1000
3 x 6	173	13,1	325	3,08	64		54		1000



NHXMH-FE 180 / PH120

Özellikler / Features

0,6 / 1 Kv Seramikleşen silikon izoleli tesisat kabloları

0,6 / 1 Kv Cross-linked ceramic forming insilation cable

Kablo Yapısı / Cable Structure

1. **İletken:** Tek telli som bakır
2. **İzole:** Seramikleşen silikon
3. **Dolgu:** HFFR
4. **Kılıf:** HFFR

1. **Conductor:** Rigit copper
2. **Insilation:** Cross-linked ceramic
3. **Filler:** HFFR
4. **Sheath:** HFFR

Nominal Kesit	Bakır faktörü	Kablo dış çapı [yaklaşık]	Net ağırlık [yaklaşık]	20 °C'de iletken DA direnci	Akım taşıma kapasitesi				Sevk uzunluğu [yaklaşık]
					boru içinde		havada		
Rated Cross-section	Cu factor 1000 m	Overall diameter of cable [approx.]	Net weight [approx.]	Conductor DC resistance at 20 °C	Current carrying capacity in conduit		air		Delivery length [approx.]
mm ²		mm	kg / km	ohm / km	A	A	A	A	m
1 Damarlı / 1 cores									0,6/1kV
1 x 4	38	6,5	75	4,61	66	54	56	40	1000
1 x 6	58	7,0	96	3,08	82	67	73	53	1000
1 x 10	96	7,8	137	1,83	109	89	101	74	1000
1 x 16	154	8,7	196	1,150	139	115	137	101	1000
2 Damarlı / 2 cores									0,6/1kV
2 x 1,5	29	9,5	137	12,1	37		26		1000
2 x 2,5	48	10,6	186	7,41	49		36		1000
2 x 4	77	11,5	215	4,61	64		49		1000
2 x 6	115	12,5	272	3,08	79		63		1000
3 Damarlı / 3 cores									0,6/1kV
3 x 1,5	43	10,2	154	12,1	31		23		1000
3 x 2,5	72	11,1	195	7,41	40		32		1000
3 x 4	115	12,1	254	4,61	52		42		1000
3 x 6	173	13,1	325	3,08	64		54		1000

NHXMH-0

Özellikler / Features

450/750 V HFFR izoleli tesisat kabloları

450/750 V HFFR insulation cable

Kablo Yapısı / Cable Structure

1. **İletken:** Tek telli som bakır
2. **İzole:** X-HFFR
3. **Kılıf:** HFFR

1. **Conductor:** Rigit copper
2. **Insulation:** X-HFFR
3. **Sheath:** HFFR

Nominal Kesit	Bakır faktörü	Kablo dış çapı [yaklaşık]	Net ağırlık [yaklaşık]	20 °C'de iletken DA direnci	Satın üzerinde akım taşıma kapasitesi	Sevk uzunluğu [yaklaşık]
Rated Cross-section	Cu factor 1000 m	Overall diameter of cable [approx.]	Net weight [approx.]	Conductor DC resistance at 20 °C	Current carrying capacity on surface	Delivery length [approx.]
mm ²		mm	kg / km	ohm / km	A	m
2 Damarlı / 2 cores						300/500 V
2 x 1,5	29	8,0	95	12,1	22	1000
2 x 2,5	48	8,8	125	7,41	30	1000
2 x 4	77	10,0	171	4,61	40	1000
2 x 6	115	11,0	224	3,08	51	1000
2 x 10	192	13,5	351	1,83	70	1000
3 Damarlı / 3 cores						300/500 V
3 x 1,5	43	8,4	112	12,1	22	1000
3 x 2,5	72	9,3	150	7,41	30	1000
3 x 4	115	10,5	207	4,61	40	1000
3 x 6	173	12,0	286	3,08	51	1000
3 x 10	288	14,2	448	1,83	70	1000
4 Damarlı / 4 cores						300/500 V
4 x 1,5	58	9,2	139	26,0	18,5	1000
4 x 2,5	96	10,1	186	7,41	25	1000
4 x 4	154	12,1	277	4,61	34	1000
4 x 6	230	13,3	367	3,08	43	1000
4 x 10	384	15,7	559	1,83	60	1000
4 x 16 rm	614	19,4	868	1,15	80	1000
5 Damarlı / 5 cores						300/500 V
5 x 1,5	72	9,8	160	12,1	18,5	1000
5 x 2,5	120	10,8	216	12,1	25	1000
5 x 4	193	13,0	325	12,1	34	1000
5 x 6	288	14,4	435	12,1	43	1000



TPU POWER CABLE

Özellikler / Features

450/750 V TPU izoleli çok damarlı kablolar

450/750 V TPU insulation cable

Kablo Yapısı / Cable Structure

1. **İletken:** Çok telli som bakır
 2. **İzole:** HFFR
 3. **Kılıf:** TPU
1. **Conductor:** Flexible copper
 2. **Insulation:** HFFR
 3. **Sheath:** TPU

Nominal Kesit	Kablo dış çapı (yaklaşık)	Net ağırlık (yaklaşık)	20 °C'de iletken DA direnci	Akım taşıma kapasitesi		Sevk uzunluğu (yaklaşık)
				Boruda 20 °C' de A	Havada 30°C'de A	
Rated Cross-section	Overall diameter of cable [approx.]	Net weight [approx.]	Conductor DC resistance at 20 °C	Current carrying capacity		Delivery length [approx.]
mm ²	mm	kg / km	ohm / km	A	A	m
H05Z1Z1-F						
2 x 0,75	6,2	51	26	-	13	100
2 x 1	6,6	63	19,5	-	15	100
2 x 1,5	7,6	85	13,3	-	20	100
2 x 2,5	9,2	129	7,98	-	26	100
2 x 4	10,6	181	4,95	-	33	100
3 x 0,75	6,5	64	26	-	13	100
3 x 1	7,2	78	19,5	-	15	100
3 x 1,5	8,5	110	13,3	-	20	100
3 x 2,5	9,9	162	7,98	-	26	100
3 x 4	11,4	229	4,95	-	33	100
4 x 0,75	7,1	74	26	-	13	100
4 x 1	7,8	96	19,5	-	15	100
4 x 1,5	9,2	135	13,3	-	20	100
4 x 2,5	10,9	201	7,98	-	26	100
4 x 4	12,5	286	4,95	-	33	100
5 x 0,75	8	92	26	-	13	100
5 x 1	8,6	116	19,5	-	15	100
5 x 1,5	10,3	169	13,3	-	20	100
5 x 2,5	12,1	250	7,98	-	26	100
5 x 4	14,1	360	4,95	-	33	100

H05VV5-F

Özellikler / Features

450/750 V Yağlara dayanıklı PVC izoleli kablolar

450/750 V Oil resistant PVC insulation cable

Kablo Yapısı / Cable Structure

1. **İletken:** Çok telli som bakır
 2. **İzole:** PVC
 3. **Kılıf:** Yağlara dayanıklı PVC
1. **Conductor:** Flexible copper
 2. **Insulation:** PVC
 3. **Sheath:** Oil resistant PVC

Nominal Kesit	Bakır faktörü	Kablo dış çapı [yaklaşık]	Net ağırlık [yaklaşık]	20 °C'de iletken DA direnci	Satın üzerinde akım taşıma kapasitesi	Sevk uzunluğu [yaklaşık]
Rated Cross-section	Cu factor 1000 m	Overall diameter of cable [approx.]	Net weight [approx.]	Conductor DC resistance at 20 °C	Current carrying capacity on surface	Delivery length [approx.]
mm ²		mm	kg / km	ohm / km	A	m
450/750 V						
2 x 0,75	14	6,0	52	26	14,0	1000
3 x 0,75	22	6,5	62	26	14,0	1000
4 x 0,75	29	7,0	75	26	14,0	1000
5 x 0,75	36	8,0	90	26	10,5	1000
7 x 0,75	50	9,0	115	26	9,1	1000
12 x 0,75	86	12,0	185	26	7,0	1000



H05VVC4V5-K

Özellikler / Features

450/750 V Yağlara dayanıklı PVC izoleli kablolar

450/750 V Oil resistant PVC insulation cable

Kablo Yapısı / Cable Structure

1. **İletken:** Çok telli som bakır
 2. **İzole:** PVC
 3. **Dolgu:** PVC
 4. **Ekran:** Kalaylı Bakır
 5. **Kılıf:** Yağlara dayanıklı PVC
1. **Conductor:** Flexible copper
 2. **Insulation:** PVC
 3. **Filler:** PVC
 4. **Screen:** Tinned copper
 5. **Sheath:** Oil resistant PVC

Nominal Kesit	Bakır faktörü	Kablo dış çapı [yaklaşık]	Net ağırlık [yaklaşık]	20 °C'de iletken DA direnci	Satın üzerinde akım taşıma kapasitesi	Sevk uzunluğu [yaklaşık]
Rated Cross-section	Cu factor 1000 m	Overall diameter of cable [approx.]	Net weight [approx.]	Conductor DC resistance at 20 °C	Current carrying capacity on surface	Delivery length [approx.]
mm ²		mm	kg / km	ohm / km	A	m
450/750 V						
2 x 0,75	31	8,5	100	26	14,0	1000
3 x 0,75	39	8,5	110	26	14,0	1000
4 x 0,75	48	9,5	130	26	14,0	1000
5 x 0,75	56	10,0	150	26	10,5	1000
7 x 0,75	72	11,0	185	26	9,1	1000
12 x 0,75	126	14,5	300	26	7,0	1000

H07VV / H06-F

Özellikler / Features

450/750 V Pvc izoleli yassı kablolar

450/750 V Pvc insilation flat cable

Kablo Yapısı / Cable Structure

1. **İletken:** Çok telli som bakır
2. **İzole:** PVC
3. **Kılıf:** PVC

1. **Conductor:** Flexible copper
2. **Insilation:** PVC
3. **Sheath:** PVC

Nominal Kesit	Kablo dış çapı (yaklaşık)	Net ağırlık (yaklaşık)	20 °C'de iletken DA direnci
Rated Cross-section	Overall diameter of cable [approx.]	Net weight [approx.]	Conductor DC resistance at 20 °C
mm ²	mm	kg / km	ohm / km
H07VV-H06-F			450/750 V
3X1.5	4,9X11,7	117	13.3
3X2.5	5,55X14,25	175	7.98
3X4	6,5X15,9	230	4.95
3X6	7,9X17,7	308	3.30
3X10	8,9X21,9	490	1.91
3X16	10,25X25,75	722	1.21
3X25	12,2X31,0	1066	0.78
4X1.5	4,9X14,6	152	13.3
4X2.5	5,55X17,8	228	7.98
4X4	6,5X20	305	4.95
4X6	7,1X22,4	404	3.30
4X10	8,9X28	650	1.91
4X16	10,25X33	955	1.21



H05V3V3-F

Özellikler / Features

300/500 V Soğuk ortamlara dayanıklı PVC izoleli kablolar
300/500 V Cold resistant PVC insulation cable

Kablo Yapısı / Cable Structure

1. **İletken:** Çok telli som bakır
 2. **İzole:** PVC [-40 C°]
 3. **Kılıf:** PVC [-40 C°]
1. **Conductor:** Flexible copper
 2. **Insulation:** PVC [-40 C°]
 3. **Sheath:** PVC [-40 C°]

Nominal Kesit	İletken Tel Sayısı ve Çapı	Standart Et Kalınlığı [izole]	Standart Et Kalınlığı [Kılıf]	Standart Dış Çap		Yaklaşık Dış Çap	20 °C'de Mks. İletken DC Direnci	Yaklaşık Toplam Ağırlık	30 °C'de Maks Akım Taşıma Kapasitesi
Rated Cross-section	Number of Wires and Diameter	Thickness of Insulation	Thickness of Sheath	Overall Diameters in Standards		Approx. Overall Diameter	Conductor DC Resistance at 20 °C	Approx. Total Weight	Max. Current Carrying Capacity at 30 °C
No x mm ²	No x mm	mm	mm	min	max	mm	ohm / km	kg / km	Air A
H05V3V3-F									
300/500 V									
2 x 0,75	22 x 0,20	0,6	0,80	5,7	7,2	6,4	26	57	8
2 x 1	30 x 0,20	0,6	0,80	5,9	7,5	6,6	19,5	64	12
2 x 1,5	27 x 0,25	0,7	0,80	6,8	8,6	7,4	13,3	91	18
2 x 2,5	45 x 0,25	0,8	1,00	8,4	10,6	9,2	7,98	135	26
2 x 4	50 x 0,30	0,8	1,10	9,7	12,1	11	4,95	189	32
2 x 6	75 x 0,40	0,8	1,10	11,8	13,1	12,4	3,3	274	42
2 x 10	73 x 0,40	0,9	1,20	14,6	15,8	15	1,91	422	70
3 x 0,75	22 x 0,20	0,6	0,80	6	7,6	6,8	26	68	8
3 x 1	30 x 0,20	0,6	0,80	6,3	8	7	19,5	77	12
3 x 1,5	27 x 0,25	0,7	0,90	7,4	9,4	8,1	13,3	109	18
3 x 2,5	45 x 0,25	0,8	1,10	9,2	11,4	10	7,98	169	26
3 x 4	50 x 0,30	0,8	1,20	10,5	13,1	11,9	4,95	238	32
3 x 6	75 x 0,30	0,8	1,10	12,5	14,2	13,3	3,3	343	42
3 x 10	73 x 0,40	0,9	1,20	15,8	17,2	16,3	1,91	538	70
4 x 0,75	22 x 0,20	0,6	0,80	6,6	8,3	7,4	26	85	8
4 x 1	30 x 0,20	0,6	0,80	7,1	9	7,9	19,5	98	12
4 x 1,5	27 x 0,25	0,7	0,80	8,4	10,5	9	13,3	145	18
4 x 2,5	45 x 0,25	0,8	1,10	11	12,5	10,9	7,98	213	26
4 x 4	50 x 0,30	0,8	1,20	11,5	14,3	13,2	4,95	306	32
4 x 6	75 x 0,30	0,8	1,30	13,6	15,2	14,7	3,3	427	42
4 x 10	73 x 0,40	0,9	1,40	17,2	18,3	17,9	1,91	674	70
4 x 16	119 x 0,40	0,9	1,50	19,4	20,8	20,3	1,21	972	80
5 x 0,75	22 x 0,20	0,6	0,80	7,4	9,3	8,3	26	101	8
5 x 1	30 x 0,20	0,6	0,90	7,8	9,8	8,6	19,5	125	12
5 x 1,5	27 x 0,25	0,7	1,00	9,3	11,6	10,1	13,3	176	18
5 x 2,5	45 x 0,25	0,8	1,10	11,2	13,9	12,8	7,98	261	26

FLAT & EARTH

Özellikler / Features

450/750 V Pvc izoleli çok damarlı tesisat kabloları

450/750 V Pvc insulation cable

Kablo Yapısı / Cable Structure

1. **İletken:** Tek telli som bakır
2. **İzole:** PVC
3. **Kılıf:** PVC

1. **Conductor:** Rigit copper
2. **Insulation:** PVC
3. **Sheath:** PVC

Nominal Kesit	İletken Tel Sayısı ve Çapı	Standart Et Kalınlığı [izole]	İletken Sınıfı	Toprak İletken Çapı	Yaklaşık Dış Çap	20 °C'de Mks. İletken DC Direnci	Yaklaşık Toplam Ağırlık	30 °C'de Maks Akım Taşıma Kapasitesi
Rated Cross-section	Number of Wires and Diameter	Thickness of Insulation	Class of conductor	Size ecc conductor SQmm	Approx. Overall Diameter	Conductor DC Resistance at 20 °C	Approx. Total Weight	Max. Current Carrying Capacity at 30 °C
No x mm ²	No x mm	mm	mm	mm	mm	ohm / km	kg / km	Air A
6242Y								300/500 V
2x1,5+1x1	1,35 / 1,10	0,7	1	1,13	4,70 x 8,60	12,1 / 18,1	84	20
2x2,5+1x1	1,73 / 1,10	0,8	1	1,13	5,40 x 9,90	7,41 / 18,1	116	27
2x4+1x1,5	2,19 / 1,35	0,8	2	1,38	6,20 x 11,80	4,61 / 7,41	170	37
2x6+1x2,5	2,68 / 1,73	0,8	2	1,78	7 x 13,60	3,08 / 7,41	240	47
2x10+1x4	7x1,32 / 2,19	1,0	2	2,55	8,50 x 17,20	1,83 / 4,61	380	64
2x16+1x6	7x1,66 / 2,68	1,0	2	3,15	9,70 x 20,00	1,15 / 3,08	549	85
6243Y								300/500 V
3x1,0+1x1	1,10	0,6	1	1,13	4,20 x 9,90	18,1 / 18,1	88	13,5
3x1,5+1x1	1,35 / 1,10	0,7	1	1,13	4,70 x 11,40	12,1 / 12,1	115	17,5
3x2,5+1x1	1,73 / 1,10	0,8	1	1,13	5,40 x 13,30	7,41 / 18,1	163	24
3x4,0+1x1,5	2,19 / 1,35	0,8	2	1,38	6,20 x 16,00	4,61 / 12,1	239	32
3x6+1x2,5	2,68 / 1,73	1,0	2	1,78	7,00 x 18,40	3,08 / 7,41	333	41
3x10+1x4	7x1,32 / 2,19	1,0	2	2,55	8,50 x 23,30	1,83 / 4,61	533	57
3x16+1x6	7x1,66 / 2,68	1,0	2	3,15	9,70 x 27,10	1,14 / 3,08	773	76



H03VVH2-F

Özellikler / Features

300/300 V PVC izoleli bitişik hoparlör kabloları

300/300 V PVC insulation cable

Kablo Yapısı / Cable Structure

1. **İletken:** Çok telli som bakır
2. **İzole:** PVC
1. **Conductor:** Flexible copper
2. **Insulation:** PVC

Nominal Kesit	İletken Tel Sayısı ve Çapı	Standart Dış Çap		Yaklaşık Dış Çap	20 °C'de iletken DA direnci	Yaklaşık Toplam Ağırlık	30 °C de Maks Akım Taşıma Kapasitesi	
Rated Cross-section	Cu factor 1000 m	Overall diameter in standarts		Approx Overall Diameter	Conductor DC resistance at 20 °C	Approx. Total Weight	Max. Current Carrying Capacity at 30 °C	
mm ²	No x mm	min	max	max. mm	ohm / km	kg/km	Pipe A	Air A
H03VVH2-F							300/300 V	
2 x 0,50	15 x 0,20	0,5	0,6	3,0 x 4,9	39,00	30	-	3
2x 0,75	22 x 0,20	0,5	0,6	3,2 x 5,20	26,00	39	-	6

NVV-[NYM]-CU / PVC / PVC

Özellikler / Features

450/750 V PVC izoleli çok damarlı tesisat kabloları

450/750 V PVC insulation cable

Kablo Yapısı / Cable Structure

1. **İletken:** Tek telli som bakır
 2. **İzole:** PVC
 3. **Dolgu:** PVC
 4. **Kılıf:** PVC
1. **Conductor:** Rigit copper
 2. **Insulation:** PVC
 3. **Filler:** PVC
 4. **Sheath:** PVC

Nominal Kesit	İletken Tel Sayısı ve Çapı	Standart Et Kalınlığı (izole)	Standart Et Kalınlığı (Kılıf)	Standart Dış Çap	Yaklaşık Dış Çap	20 °C'de Mks. İletken DC Direnci	Yaklaşık Toplam Ağırlık	30 °C'de Maks Akım Taşıma Kapasitesi
Rated Cross-section	Number of Wires and Diameter	Thickness of Insulation	Thickness of Sheath	Overall Diameters in Standards	Approx. Overall Diameter	Conductor DC Resistance at 20 °C	Approx. Total Weight	Max. Current Carrying Capacity at 30 °C
No x mm ²	No x mm	mm	mm	max. mm	mm	ohm / km	kg / km	Air A

NVV [NYM]

300/500 V

2 x 1,5	1,35	0,7	1,2	8,4 - 10	8,2	12,1	108	22
2 x 2,5	1,73	0,8	1,2	9,6 - 11,5	9,5	7,41	148	30
2 x 4	2,19	0,8	1,2	10,5 - 12,5	10,5	4,61	194	40
2 x 6	2,68	0,8	1,2	11,5 - 12,5	11,5	3,08	250	51
2 x 10 ç	7 x 1,32	1	1,4	14,5 - 13,5	14,9	1,83	427	70
2 x 16 ç	7 x 1,66	1	1,4	16,5 - 20	17,1	1,15	604	94
3 x 1,5	1,35	0,7	1,2	8,8 - 10,5	8,8	12,1	128	22
3 x 2,5	1,73	0,8	1,2	10 - 12	10,1	7,41	179	30
3 x 4	2,19	0,8	1,2	11 - 13	11,2	4,61	239	40
3 x 6	2,68	0,8	1,2	12,5 - 14,5	12,5	3,08	319	51
3 x 10 ç	7 x 1,32	1	1,4	15,5 - 17,5	15,9	1,83	535	70
3 x 16 ç	7 x 1,66	1	1,4	18 - 21,5	18,3	1,15	769	94
4 x 1,5	1,35	0,7	1,2	9,6 - 11,5	9,5	12,1	154	18,5
4 x 2,5	1,73	0,8	1,2	11 - 13	11	7,41	219	25
4 x 4	2,19	0,8	1,2	12 - 14,5	12,4	4,61	301	34
4 x 6	2,68	0,8	1,2	14 - 16	13,7	3,08	399	43
4 x 10 ç	7 x 1,32	1	1,4	16,5 - 19	17,4	1,83	669	60
4 x 16 ç	7 x 1,66	1	1,4	20 - 23,5	20,14	1,15	970	80
5 x 1,5	1,35	0,7	1,2	10 - 12	10,2	12,1	181	15,5
5 x 2,5	1,73	0,8	1,2	12 - 14,5	11,9	7,41	262	2
5 x 4	2,19	0,8	1,2	13,5 - 16	13,5	4,61	364	31
5 x 6	2,68	0,8	1,2	15 - 17,5	14,9	3,08	483	40
5 x 10 ç	7 x 1,32	1	1,4	18 - 21	19,3	1,83	828	56,5



H05Z1Z1-F

Özellikler / Features

450/750 V HFFR izoleli çok damarlı kablolar

450/750 V HFFR insulation cable

Kablo Yapısı / Cable Structure

1. **İletken:** Çok telli som bakır
2. **İzole:** HFFR
3. **Kılıf:** HFFR

1. **Conductor:** Flexible copper
2. **Insulation:** HFFR
3. **Sheath:** HFFR

Nominal Kesit	Kablo dış çapı (yaklaşık)	Net ağırlık (yaklaşık)	20 °C'de iletken DA direnci	Akım taşıma kapasitesi		Sevk uzunluğu (yaklaşık)
				Boruda 20 °C' de A	Havada 30°C'de A	
Rated Cross-section	Overall diameter of cable [approx.]	Net weight [approx.]	Conductor DC resistance at 20 °C	Current carrying capacity		Delivery length [approx.]
mm ²	mm	kg / km	ohm / km	A	A	m
H05Z1Z1-F						
2 x 0,75	6,2	51	26	-	13	100
2 x 1	6,6	63	19,5	-	15	100
2 x 1,5	7,6	85	13,3	-	20	100
2 x 2,5	9,2	129	7,98	-	26	100
2 x 4	10,6	181	4,95	-	33	100
3 x 0,75	6,5	64	26	-	13	100
3 x 1	7,2	78	19,5	-	15	100
3 x 1,5	8,5	110	13,3	-	20	100
3 x 2,5	9,9	162	7,98	-	26	100
3 x 4	11,4	229	4,95	-	33	100
4 x 0,75	7,1	74	26	-	13	100
4 x 1	7,8	96	19,5	-	15	100
4 x 1,5	9,2	135	13,3	-	20	100
4 x 2,5	10,9	201	7,98	-	26	100
4 x 4	12,5	286	4,95	-	33	100
5 x 0,75	8	92	26	-	13	100
5 x 1	8,6	116	19,5	-	15	100
5 x 1,5	10,3	169	13,3	-	20	100
5 x 2,5	12,1	250	7,98	-	26	100
5 x 4	14,1	360	4,95	-	33	100



SY-CY

Özellikler / Features

300/500 V Çelik zırlı PVC izoleli kablolar
300/500 V Steel armor PVC insulation cable

Kablo Yapısı / Cable Structure

1. **İletken:** Çok telli som bakır
 2. **İzole:** PVC
 3. **Dolgu:** PVC
 4. **Ekran:** Çelik tel örgü
 5. **Kılıf:** Antimikrobiyal Şeffaf PVC kılıf
1. **Conductor:** Flexible copper
 2. **Insulation:** PVC
 3. **Filler:** PVC
 4. **Screen:** Steel
 5. **Sheath:** Antimicrobial transparent PVC

Nominal Kesit	Bakır faktörü	Kablo dış çapı (yaklaşık)	Net ağırlık (yaklaşık)	20 °C'de iletken DA direnci	Satış üzerinde akım taşıma kapasitesi	Sevk uzunluğu (yaklaşık)
Rated Cross-section	Cu factor 1000 m	Overall diameter of cable [approx.]	Net weight [approx.]	Conductor DC resistance at 20 °C	Current carrying capacity on surface	Delivery length [approx.]
mm ²		mm	kg / km	ohm / km	A	m
450/750 V						
2 x 0,75	31	8,5	100	26	14,0	1000
3 x 0,75	39	8,5	110	26	14,0	1000
4 x 0,75	48	9,5	130	26	14,0	1000
5 x 0,75	56	10,0	150	26	10,5	1000
7 x 0,75	72	11,0	185	26	9,1	1000
12 x 0,75	126	14,5	300	26	7,0	1000



Veri, Bilgisayar Koaksiyel ve Cctv Kabloları

Data, Computer, Coaxial and Cctv Cables

LIYY

Özellikler / Features

300/500 V Pvc izoleli sinyal kontrol kabloları

450/750 V Pvc insulation signal control cables

Kablo Yapısı / Cable Structure

1. **İletken:** Çok telli som bakır
2. **İzole:** PVC
3. **Kılıf:** PVC

1. **Conductor:** Stranded copper
2. **Insulation:** PVC
3. **Sheath:** PVC

Nominal Kesit	Yalıtkan Et Kalınlığı (En Az)	Damar Çapı (En Çok)	20 °C'de Mks. İletken DC Direnci	20 °C'de Min. İletken DC Direnci	Gerilim Dayanımı Vaa	Çalışma Gerilimi
Nominal Cross-section	Min. Insulation Thickness	Maximum Insulated Conductor Dia.	Max. Conductor Resistance at 20°C	Min. Insulation Resistance at 20 °C	Test Voltage Vaa	Operating Voltage
mm ²	mm	mm	ohm/km	m.ohm/km	1dk [1min]	V
300/500 V						
0,22	0,3	1,3	96	200	1200	500
0,25 [14x0,15 mm]	0,3	1,4	79,9	200	1200	500
0,34	0,3	1,5	53	200	1200	500
0,50 [16x0,20 mm]	0,4	1,95	38,9	200	1200	500
0,75 [24x0,20 mm]	0,4	2,15	26	200	1200	500
1,00 [32x0,20 mm]	0,4	2,25	19,5	200	1200	500
1,50 [30x0,25 mm]	0,5	2,75	13,3	200	2500	900
2,5	0,5	3,2	7,98	200	2500	900



LIYCY

Özellikler / Features

300/500 V Pvc izoleli bakır örgü ekranlı sinyal kontrol kabloları

450/750 V Pvc insilation copper screen signal control cables

Kablo Yapısı / Cable Structure

1. **İletken:** Çok telli som bakır
 2. **İzole:** PVC
 3. **Bant:** Pesbant
 4. **Ekran:** Kalaylı bakır örgü
 5. **Kılıf:** PVC
1. **Conductor:** Flexible copper
 2. **Insilation:** PVC
 3. **Wrapping:** Pes Tape
 4. **Screen:** Tinned copper braid
 5. **Sheath:** PVC

Nominal Kesit	Yalıtkan Et Kalınlığı (En Az)	Damar Çapı (En Çok)	20 °C'de Mks. İletken DC Direnci	20 °C'de Min. İletken DC Direnci	Gerilim Dayanımı Vaa	Çalışma Gerilimi
Nominal Cross-section	Min. Insulation Thickness	Maximum Insulated Conductor Dia.	Max. Conductor Resistance at 20°C	Min. Insulation Resistance at 20 °C	Test Voltage Vaa	Operating Voltage
mm ²	mm	mm	ohm/km	m.ohm/km	1dk [1min]	V
300/500 V						
0,22	0,3	1,3	96	200	1200	500
0,25 [14x0,15 mm]	0,3	1,4	79,9	200	1200	500
0,34	0,3	1,5	53	200	1200	500
0,50 [16x0,20 mm]	0,4	1,95	38,9	200	1200	500
0,75 [24x0,20 mm]	0,4	2,15	26	200	1200	500
1,00 [32x0,20 mm]	0,4	2,25	19,5	200	1200	500
1,50 [30x0,25 mm]	0,5	2,75	13,3	200	2500	900
2,5	0,5	3,2	7,98	200	2500	900

LIY(st)Y

Özellikler / Features

300/300 V PVC izoleli sanayi tip data kabloları

300/300 V PVC insilation data cables

Kablo Yapısı / Cable Structure

1. **İletken:** Çok telli som bakır
 2. **İzole:** PVC
 3. **Bant:** Pes Bant
 4. **Toprak Teli:** Kalaylı çok telli som bakır
 5. **Ekran:** Alüminyum lamineli polyester bant
 6. **Kılıf:** FR PVC
1. **Conductor:** Flexible copper
 2. **Insilation:** PVC
 3. **Wrapping:** Pes Tape
 4. **Drain wire:** Tinned copper
 5. **Screen:** Alpes Tape
 6. **Sheath:** FR PVC

Nominal Kesit	Yalıtkan Et Kalınlığı (En Az)	Damar Çapı (En Çok)	20 °C'de Mks. İletken DC Direnci	20 °C'de Min. İletken DC Direnci	Gerilim Dayanımı Vaa	Çalışma Gerilimi
Nominal Cross-section	Min. Insulation Thickness	Maximum Insulated Conductor Dia.	Max. Conductor Resistance at 20°C	Min. Insulation Resistance at 20 °C	Test Voltage Vaa	Operating Voltage
mm ²	mm	mm	ohm/km	m.ohm/km	1dk [1min]	V
0,22	0,3	1,3	96	200	1200	500
0,25 [14x0,15 mm]	0,3	1,4	79,9	200	1200	500
0,34	0,3	1,5	53	200	1200	500
0,50 [16x0,20 mm]	0,4	1,95	38,9	200	1200	500
0,75 [24x0,20 mm]	0,4	2,15	26	200	1200	500
1,00 [32x0,20 mm]	0,4	2,25	19,5	200	1200	500
1,50 [30x0,25 mm]	0,5	2,75	13,3	200	2500	900
2,5	0,5	3,2	7,98	200	2500	900

300/500 V



LIH(st)H

Özellikler / Features

300/300 V PVC izoleli sanayi tip data kabloları

300/300 V PVC insilation data cables

Kablo Yapısı / Cable Structure

1. **İletken:** Çok telli som bakır
 2. **İzole:** PVC
 3. **Bant:** Pes Bant
 4. **Toprak Teli:** Kalaylı çok telli som bakır
 5. **Ekran:** Alüminyum lamineli polyester bant
 6. **Kılıf:** HFFR
1. **Conductor:** Flexible copper
 2. **Insilation:** PVC
 3. **Wrapping:** Pes Tape
 4. **Drain wire:** Tinned copper
 5. **Screen:** Alpes Tape
 6. **Sheath:** HFFR

Nominal Kesit	Yalıtkan Et Kalınlığı (En Az)	Damar Çapı (En Çok)	20 °C'de Mks. İletken DC Direnci	20 °C'de Min. İletken DC Direnci	Gerilim Dayanımı Vaa	Çalışma Gerilimi
Nominal Cross-section	Min. Insulation Thickness	Maximum Insulated Conductor Dia.	Max. Conductor Resistance at 20°C	Min. Insulation Resistance at 20 °C	Test Voltage Vaa	Operating Voltage
mm ²	mm	mm	ohm/km	m.ohm/km	1dk [1min]	V
0,22	0,3	1,3	96	200	1200	500
0,25 [14x0,15 mm]	0,3	1,4	79,9	200	1200	500
0,34	0,3	1,5	53	200	1200	500
0,50 [16x0,20 mm]	0,4	1,95	38,9	200	1200	500
0,75 [24x0,20 mm]	0,4	2,15	26	200	1200	500
1,00 [32x0,20 mm]	0,4	2,25	19,5	200	1200	500
1,50 [30x0,25 mm]	0,5	2,75	13,3	200	2500	900
2,5	0,5	3,2	7,98	200	2500	900

300/500 V

LIHH

Özellikler / Features

300/500 V HFFR izoleli sinyal kontrol kabloları

450/750 V HFFR insulation signal control cables

Kablo Yapısı / Cable Structure

1. **İletken:** Çok telli som bakır
2. **İzole:** HFFR
3. **Kılıf:** HFFR

1. **Conductor:** Stranded copper
2. **Insulation:** HFFR
3. **Sheath:** HFFR

Nominal Kesit	Yalıtkan Et Kalınlığı (En Az)	Damar Çapı (En Çok)	20 °C'de Mks. İletken DC Direnci	20 °C'de Min. İletken DC Direnci	Gerilim Dayanımı Vaa	Çalışma Gerilimi
Nominal Cross-section	Min. Insulation Thickness	Maximum Insulated Conductor Dia.	Max. Conductor Resistance at 20°C	Min. Insulation Resistance at 20 °C	Test Voltage Vaa	Operating Voltage
mm ²	mm	mm	ohm/km	m.ohm/km	1dk [1min]	V
300/500 V						
0,22	0,3	1,3	96	200	1200	500
0,25 [14x0,15 mm]	0,3	1,4	79,9	200	1200	500
0,34	0,3	1,5	53	200	1200	500
0,50 [16x0,20 mm]	0,4	1,95	38,9	200	1200	500
0,75 [24x0,20 mm]	0,4	2,15	26	200	1200	500
1,00 [32x0,20 mm]	0,4	2,25	19,5	200	1200	500
1,50 [30x0,25 mm]	0,5	2,75	13,3	200	2500	900
2,5	0,5	3,2	7,98	200	2500	900



LIHCH

Özellikler / Features

300/500 V HFFR izoleli bakır örgü ekranlı sinyal kontrol kabloları

450/750 V HFFR insulation copper screen signal control cables

Kablo Yapısı / Cable Structure

1. **İletken:** Çok telli som bakır
 2. **İzole:** HFFR
 3. **Bant:** Pesbant
 4. **Ekran:** Kalaylı bakır örgü
 5. **Kılıf:** HFFR
1. **Conductor:** Flexible copper
 2. **Insulation:** HFFR
 3. **Wrapping:** Pes Tape
 4. **Screen:** Tinned copper braid
 5. **Sheath:** HFFR

Nominal Kesit	Yalıtkan Et Kalınlığı (En Az)	Damar Çapı (En Çok)	20 °C'de Mks. İletken DC Direnci	20 °C'de Min. İletken DC Direnci	Gerilim Dayanımı Vaa	Çalışma Gerilimi
Nominal Cross-section	Min. Insulation Thickness	Maximum Insulated Conductor Dia.	Max. Conductor Resistance at 20°C	Min. Insulation Resistance at 20 °C	Test Voltage Vaa	Operating Voltage
mm ²	mm	mm	ohm/km	m.ohm/km	1dk [1min]	V
300/500 V						
0,22	0,3	1,3	96	200	1200	500
0,25 [14x0,15 mm]	0,3	1,4	79,9	200	1200	500
0,34	0,3	1,5	53	200	1200	500
0,50 [16x0,20 mm]	0,4	1,95	38,9	200	1200	500
0,75 [24x0,20 mm]	0,4	2,15	26	200	1200	500
1,00 [32x0,20 mm]	0,4	2,25	19,5	200	1200	500
1,50 [30x0,25 mm]	0,5	2,75	13,3	200	2500	900
2,5	0,5	3,2	7,98	200	2500	900

HSLH

Özellikler / Features

300/500 V HFFR izoleli kablolar

300/500 V HFFR insilation cable

Kablo Yapısı / Cable Structure

1. **İletken:** Çok telli som bakır
 2. **İzole:** HFFR
 3. **Kılıf:** Yağlara dayanıklı HFFR
1. **Conductor:** Flexible copper
 2. **Insilation:** HFFR
 3. **Sheath:** Oil resistant HFFR

Nominal Kesit	Bakır faktörü	Kablo dış çapı [yaklaşık]	Net ağırlık [yaklaşık]	20 °C'de iletken DA direnci	Satın üzerinde akım taşıma kapasitesi	Sevk uzunluğu [yaklaşık]
Rated Cross-section	Cu factor 1000 m	Overall diameter of cable [approx.]	Net weight [approx.]	Conductor DC resistance at 20 °C	Current carrying capacity on surface	Delivery length [approx.]
mm ²		mm	kg / km	ohm / km	A	m
450/750 V						
2 x 0,75	14	6,0	52	26	14,0	1000
3 x 0,75	22	6,5	62	26	14,0	1000
4 x 0,75	29	7,0	75	26	14,0	1000
5 x 0,75	36	8,0	90	26	10,5	1000
7 x 0,75	50	9,0	115	26	9,1	1000
12 x 0,75	86	12,0	185	26	7,0	1000



HSLHCH

Özellikler / Features

300/500 V HFFR izoleli kablolar
300/500 V HFFRinsilation cable

Kablo Yapısı / Cable Structure

1. **İletken:** Çok telli som bakır
 2. **İzole:** HFFR
 3. **Dolgu:** HFFR
 4. **Ekran:** Kalaylı Bakır
 5. **Kılıf:** Yağlara dayanıklı HFFR
1. **Conductor:** Flexible copper
 2. **Insilation:** HFFR
 3. **Filler:** HFFR
 4. **Screen:** Tinned copper
 5. **Sheath:** Oil resistant HFFR

Nominal Kesit	Bakır faktörü	Kablo dış çapı [yaklaşık]	Net ağırlık [yaklaşık]	20 °C'de iletken DA direnci	Satış üzerinde akım taşıma kapasitesi	Sevk uzunluğu [yaklaşık]
Rated Cross-section	Cu factor 1000 m	Overall diameter of cable [approx.]	Net weight [approx.]	Conductor DC resistance at 20 °C	Current carrying capacity on surface	Delivery length [approx.]
mm ²		mm	kg / km	ohm / km	A	m
450/750 V						
2 x 0,75	31	8,5	100	26	14,0	1000
3 x 0,75	39	8,5	110	26	14,0	1000
4 x 0,75	48	9,5	130	26	14,0	1000
5 x 0,75	56	10,0	150	26	10,5	1000
7 x 0,75	72	11,0	185	26	9,1	1000
12 x 0,75	126	14,5	300	26	7,0	1000

YSLY

Özellikler / Features

300/500 V PVC izoleli kablolar

300/500 V PVC insulation cable

Kablo Yapısı / Cable Structure

1. **İletken:** Çok telli som bakır
 2. **İzole:** PVC
 3. **Kılıf:** Yağlara dayanıklı PVC
1. **Conductor:** Flexible copper
 2. **Insulation:** PVC
 3. **Sheath:** Oil resistant PVC

Nominal Kesit	Bakır faktörü	Kablo dış çapı [yaklaşık]	Net ağırlık [yaklaşık]	20 °C'de iletken DA direnci	Satın üzerinde akım taşıma kapasitesi	Sevk uzunluğu [yaklaşık]
Rated Cross-section	Cu factor 1000 m	Overall diameter of cable [approx.]	Net weight [approx.]	Conductor DC resistance at 20 °C	Current carrying capacity on surface	Delivery length [approx.]
mm ²		mm	kg / km	ohm / km	A	m
450/750 V						
2 x 0,75	14	6,0	52	26	14,0	1000
3 x 0,75	22	6,5	62	26	14,0	1000
4 x 0,75	29	7,0	75	26	14,0	1000
5 x 0,75	36	8,0	90	26	10,5	1000
7 x 0,75	50	9,0	115	26	9,1	1000
12 x 0,75	86	12,0	185	26	7,0	1000



YSLYCY

Özellikler / Features

300/500 V HFFR izoleli kablolar
300/500 V HFFRinsilation cable

Kablo Yapısı / Cable Structure

1. **İletken:** Çok telli som bakır
2. **İzole:** HFFR
3. **Dolgu:** HFFR
4. **Ekran:** Kalaylı Bakır
5. **Kılıf:** Yağlara dayanıklı HFFR
1. **Conductor:** Flexible copper
2. **Insilation:** HFFR
3. **Filler:** HFFR
4. **Screen:** Tinned copper
5. **Sheath:** Oil resistant HFFR

Nominal Kesit	Bakır faktörü	Kablo dış çapı [yaklaşık]	Net ağırlık [yaklaşık]	20 °C'de iletken DA direnci	Satış üzerinde akım taşıma kapasitesi	Sevk uzunluğu [yaklaşık]
Rated Cross-section	Cu factor 1000 m	Overall diameter of cable [approx.]	Net weight [approx.]	Conductor DC resistance at 20 °C	Current carrying capacity on surface	Delivery length [approx.]
mm ²		mm	kg / km	ohm / km	A	m
450/750 V						
2 x 0,75	31	8,5	100	26	14,0	1000
3 x 0,75	39	8,5	110	26	14,0	1000
4 x 0,75	48	9,5	130	26	14,0	1000
5 x 0,75	56	10,0	150	26	10,5	1000
7 x 0,75	72	11,0	185	26	9,1	1000
12 x 0,75	126	14,5	300	26	7,0	1000

JYY

Özellikler / Features

300/300 V Pvc izoleli haberleşme kabloları

300/300 V Pvc insilation telecommunication cables

Kablo Yapısı / Cable Structure

1. **İletken:** Tek telli som bakır
 2. **İzole:** PVC
 3. **Bant:** Pes Bant
 4. **Kılıf:** FR PVC
1. **Conductor:** Rigit copper
 2. **Insilation:** PVC
 3. **Screen:** Alpes Tape
 4. **Sheath:** FR PVC

Nominal Kesit	20 °C'de Mks. İletken DC Direnci	20 °C'de Min. İletken DC Direnci	Kapasite Dengesizliği Maksimum	Kapasite (En Çok)	Gerilim Dayanımı		Çalışma Gerilimi
					ilt/ilt	ilt/ekr	
Nominal Cross-section	Max. Conductor Resistance at 20°C	Min. Insulation Resistance at 20 °C	Maximum unbalance Capacitance	Maximum Capacitance	Test Voltage		Operating Voltage
mm ²	ohm/km	ohm/km	pF/100m at 800Hz	[nF/Km]	con/con	con/scr	Vdc
0,8	0,3	100	300	100	800		300
1,00	0,3	100	300	100	800		300
1,50	0,3	100	300	100	800		300



JHH

Özellikler / Features

300/300 V PVC izoleli bitişik hoparlör kabloları

300/300 V PVC insulation cable

Kablo Yapısı / Cable Structure

1. **İletken:** Tek telli som bakır
 2. **İzole:** HFFR
 3. **Bant:** Pes Bant
 4. **Kılıf:** HFFR
1. **Conductor:** Rigit copper
 2. **Insulation:** HFFR
 3. **Wrapping:** Pes Tape
 4. **Sheath:** HFFR

Nominal Kesit	20 °C'de Mks. İletken DC Direnci	20 °C'de Min. İletken DC Direnci	Kapasite Dengesizliği Maksimum	Kapasite (En Çok)	Gerilim Dayanımı		Çalışma Gerilimi
					ilt/ilt	ilt/ekr	
Nominal Cross-section	Max. Conductor Resistance at 20°C	Min. Insulation Resistance at 20 °C	Maximum unbalance Capacitance	Maximum Capacitance	Test Voltage		Operating Voltage
mm ²	ohm/km	ohm/km	pF/100m at 800Hz	[nF/Km]	con/con	con/scr	Vdc
0,8	0,3	100	300	100	800		300
1,00	0,3	100	300	100	800		300
1,50	0,3	100	300	100	800		300

JY[st]Y

Özellikler / Features

300/300 V Pvc izoleli haberleşme kabloları

300/300 V Pvc insilation telecommunication cables

Kablo Yapısı / Cable Structure

1. **İletken:** Tek telli som bakır
 2. **İzole:** PVC
 3. **Bant:** Pes Bant
 4. **Toprak Teli:** Kalaylı tek telli som bakır
 5. **Ekran:** Alüminyum lamineli polyester bant
 6. **Kılıf:** FR PVC
1. **Conductor:** Rigit copper
 2. **Insilation:** PVC
 3. **Wrapping:** Pes Tape
 4. **Drain wire:** Tinned copper
 5. **Screen:** Alpes Tape
 6. **Sheath:** FR PVC

Nominal Kesit	20 °C'de Mks. İletken DC Direnci	20 °C'de Min. İletken DC Direnci	Kapasite Dengesizliği Maksimum	Kapasite (En Çok)	Gerilim Dayanımı		Çalışma Gerilimi
					ilt/ilt	ilt/ekr	
Nominal Cross-section	Max. Conductor Resistance at 20°C	Min. Insulation Resistance at 20 °C	Maximum unbalance Capacitance	Maximum Capacitance	Test Voltage		Operating Voltage
mm ²	ohm/km	ohm/km	pF/100m at 800Hz	[nF/Km]	con/con	con/scr	Vdc
0,8	0,3	100	300	100	800		300
1,00	0,3	100	300	100	800		300
1,50	0,3	100	300	100	800		300



JH[st]H

Özellikler / Features

300/300 V PVC izoleli bitişik hoparlör kabloları

300/300 V PVC insulation cable

Kablo Yapısı / Cable Structure

1. **İletken:** Tek telli som bakır
 2. **İzole:** HFFR
 3. **Bant:** Pes Bant
 4. **Toprak Teli:** Kalaylı tek telli som bakır
 5. **Ekran:** Alüminyum lamineli polyester bant
 6. **Kılıf:** HFFR
1. **Conductor:** Rigit copper
 2. **Insulation:** HFFR
 3. **Wrapping:** Pes Tape
 4. **Drain wire:** Tinned copper
 5. **Screen:** Alpes Tape
 6. **Sheath:** HFFR

Nominal Kesit	20 °C'de Mks. İletken DC Direnci	20 °C'de Min. İletken DC Direnci	Kapasite Dengesizliği Maksimum	Kapasite (En Çok)	Gerilim Dayanımı		Çalışma Gerilimi
					ilt/ilt	ilt/ekr	
Nominal Cross-section	Max. Conductor Resistance at 20°C	Min. Insulation Resistance at 20 °C	Maximum unbalance Capacitance	Maximum Capacitance	Test Voltage		Operating Voltage
mm ²	ohm/km	ohm/km	pF/100m at 800Hz	[nF/Km]	con/con	con/scr	Vdc
0,8	0,3	100	300	100	800		300
1,00	0,3	100	300	100	800		300
1,50	0,3	100	300	100	800		300

KABLEM FIRE RESISTANT CABLES J-H(st)H Fe 180

Özellikler / Features

300 / 300 V Seramikleşen silikon izoleli haberleşme kabloları

300 / 300V Cross-linked ceramic forming telecommunication cable

Kablo Yapısı / Cable Structure

1. **İletken:** Tek telli som bakır
 2. **İzole:** Seramikleşen silikon
 3. **Bant:** Pes bant
 4. **Alev bariyeri:** Cam elyaf bant
 5. **Toprak Teli:** Kalaylı tek telli som bakır
 6. **Ekran:** Alüminyum lamineli polyester bant
 7. **Kılıf:** FR HFFR
1. **Conductor:** Rigit copper
 2. **Insulation:** Cross-linked ceramic
 3. **Wrapping:** Pes tape
 4. **Fire Set:** Glass fiber tape
 4. **Drain wire:** Tinned copper
 5. **Screen:** Alpes tape
 6. **Sheath:** FR HFFR

Nominal Kesit	20 °C'de Mks. İletken DC Direnci	20 °C'de Min. İletken DC Direnci	Kapasite Dengesizliği Maksimum	Kapasite [En Çok]	Gerilim Dayanımı		Çalışma Gerilimi
					ilt/ilt	ilt/ekr	
Nominal Cross-section	Max. Conductor Resistance at 20°C	Min. Insulation Resistance at 20 °C	Maximum unbalance Capacitance	Maximum Capacitance	Test Voltage		Operating Voltage
mm ²	ohm/km	ohm/km	pF/100m at 800Hz	[nF/Km]	1dk [1min], Va.c.		Vdc
0,8	0,3	100	300	100	800		300
1,00	0,3	100	300	100	800		300
1,50	0,3	100	300	100	800		300



KABLEM FIRE RESISTANT CABLES J-H[st]H Fh 180 Ph 120

Özellikler / Features

300 / 300 V Seramikleşen silikon izoleli haberleşme kabloları

300 / 300V Cross-linked ceramic forming telecommunication cable

Kablo Yapısı / Cable Structure

1. **İletken:** Tek telli som bakır
 2. **İzole:** Özel seramikleşen silikon
 3. **Bant:** Pes bant
 4. **Alev bariyeri:** Cam elyaf bant
 5. **Toprak Teli:** Kalaylı tek telli som bakır
 6. **Ekran:** Alüminyum lamineli polyester bant
 7. **Kılıf:** FR HFFR
1. **Conductor:** Rigit copper
 2. **Insulation:** Special cross-linked ceramic
 3. **Wrapping:** Pes tape
 4. **Fire Set:** Glass fiber tape
 4. **Drain wire:** Tinned copper
 5. **Screen:** Alpes tape
 6. **Sheath:** FR HFFR

Nominal Kesit	20 °C'de Mks. İletken DC Direnci	20 °C'de Min. İletken DC Direnci	Kapasite Dengesizliği Maksimum	Kapasite [En Çok]	Gerilim Dayanımı		Çalışma Gerilimi
					ilt/ilt	ilt/ekr	
Nominal Cross-section	Max. Conductor Resistance at 20°C	Min. Insulation Resistance at 20 °C	Maximum unbalance Capacitance	Maximum Capacitance	Test Voltage		Operating Voltage
mm ²	ohm/km	ohm/km	pF/100m at 800Hz	[nF/Km]	1dk [1min], Va.c.		Vdc
0,8	0,3	100	300	100	800		300
1,00	0,3	100	300	100	800		300
1,50	0,3	100	300	100	800		300

LI2Y(st)Y

Özellikler / Features

300/300 V PE izoleli sanayi tip data kabloları

300/300 V PE insulation data cables

Kablo Yapısı / Cable Structure

1. **İletken:** Çok telli som bakır
 2. **İzole:** PE
 3. **Bant:** Pes Bant
 4. **Toprak Teli:** Kalaylı çok telli som bakır
 5. **Ekran:** Alüminyum lamineli polyester bant
 6. **Kılıf:** FR PVC
1. **Conductor:** Flexible copper
 2. **Insulation:** PE
 3. **Wrapping:** Pes Tape
 4. **Drain wire:** Tinned copper
 5. **Screen:** Alpes Tape
 6. **Sheath:** FR PVC

Standart	VDE 0812 & VDE 0814 & VDE 0245
izolasyon direnci	Min. 5000 M Ω .km
Efektif kapasite [800 Hz]	d/d-c/c \geq 0,25 mm ² : max. 90 pF/m
Endüktans / Empedans	~ 0,4 Mh/km / ~ 85 ohm
Çalışma gerilimi	U ₀ /U \geq 0,50 mm ² : 300/500V
Test gerilimi [AC 50 Hz]	> 0,50 mm ² : 2000 V
Çalışma sıcaklığı	Sabit: - 30 °C ~ + 80 °C Esnek: - 5 °C ~ + 70 °C
Min. bükülme yarıçapı	Sabit: 6 x D Esnek: 15 x D
Alev geciktirici test	IEC 60332-1 & EN 50265-2-1



LI2Y[st]H

Özellikler / Features

300/300 V PE izoleli sanayi tip data kabloları

300/300 V PE insilation data cables

Kablo Yapısı / Cable Structure

1. **İletken:** Çok telli som bakır
 2. **İzole:** PE
 3. **Bant:** Pes Bant
 4. **Toprak Teli:** Kalaylı çok telli som bakır
 5. **Ekran:** Alüminyum lamineli polyester bant
 6. **Kılıf:** HFFR
1. **Conductor:** Flexible copper
 2. **Insilation:** PE
 3. **Wrapping:** Pes Tape
 4. **Drain wire:** Tinned copper
 5. **Screen:** Alpes Tape
 6. **Sheath:** HFFR

Standart	VDE 0812 & VDE 0814 & VDE 0245
izolasyon direnci	Min. 5000 M Ω .km
Efektif kapasite (800 Hz)	d/d-c/c \geq 0,25 mm ² : max. 90 pF/m
Endüktans / Empedans	~ 0,4 Mh/km / ~ 85 ohm
Çalışma gerilimi	U _o /U \geq 0,50 mm ² : 300/500V
Test gerilimi (AC 50 Hz)	> 0,50 mm ² : 2000 V
Çalışma sıcaklığı	Sabit: - 30 °C ~ + 80 °C Esnek: - 5 °C ~ + 70 °C
Min. bükülme yarıçapı	Sabit: 6 x D Esnek: 15 x D
Alev geciktirici test	IEC 60332-1 & EN 50265-2-1

CAT 5e-UTP

Özellikler / Features

100 Mhz 100 Ohm Pe izoleli data kabloları

100 Mhz 100 Ohm Pe insilation data cable

Kablo Yapısı / Cable Structure

1. İletken: Tek telli som bakır
2. İzole: PE
3. Kılıf: PVC

1. Conductor: Rigit copper
2. Insilation: PE
3. Sheath: PVC

Electrical Properties

DC loop resistance		< 188 ohm/km
Resistance unbalance		< 2 %
Characteristic impedance	1 - 100MHz	100 ± 15 ohm
Insulation resistance	[500V]	≥ 5000 Mohmxkm
Capacitance	at 800 Hz	Nom. 52 nF/km
Capacitance unbalance	[pair to ground]	Nom. < 300 pF/km
Nominal Characteristic impedance	at 100 MHz	100 ± 5 ohm
Nominal velocity of propagation		0,64 c
Propagation delay	at 100MHz	Nominal 530 ns/100m
Delay skew	< 100 MHz	Nominal < 20 ns/100 m
Coupling attenuation		≥ 40 dB

Technical data

F	Attenuation	on NEXT	ACR	Returnloss	PSNEXT	PS-ACR	ELFEX	PS-ELFEXT
[MHZ]	[dB/100m]	[dB]	[dB/100m]	[dB]	[dB]	[dB/100m]	[dB/100m]	[dB/100m]
Cat 5								
300/500 V								
1	1,8	77	75	-	74	72	75	72
4	3,6	70	66	27	67	63	62	59
10	6,0	65	59	30	62	56	56	53
16	7,6	64	56	30	61	53	52	49
20	8,6	62	53	30	59	50	50	47
31.25	11,0	59	48	30	56	45	47	44



CAT 5e-FTP

Özellikler / Features

100 Mhz 100 Ohm Pe izoleli ekranlı data kabloları
100 Mhz 100 Ohm Pe insulation screened data cable

Kablo Yapısı / Cable Structure

1. **İletken:** Tek telli som bakır
2. **İzole:** PE
3. **Ekran:** Al-pes
4. **Kılıf:** PVC

1. **Conductor:** Rigit copper
2. **Insulation:** PE
3. **Screen:** Al-pes
4. **Sheath:** PVC

Electrical Properties

DC loop resistance		< 188 ohm/km
Resistance unbalance		< 2 %
Characteristic impedance	1 - 100MHz	100 ± 15 ohm
Insulation resistance	[500V]	≥ 5000 Mohm×km
Capacitance	at 800 Hz	Nom. 52 nF/km
Capacitance unbalance	[pair to ground]	Nom. < 300 pF/km
Nominal Characteristic impedance	at 100 MHz	100 ± 5 ohm
Nominal velocity of propagation		0,64 c
Propagation delay	at 100MHz	Nominal 530 ns/100m
Delay skew	< 100 MHz	Nominal < 20 ns/100 m
Coupling attenuation		≥ 40 dB

Technical data

F	Attenuation	on NEXT	ACR	Returnloss	PSNEXT	PS-ACR	ELFEX	PS-ELFEXT
[MHZ]	[dB/100m]	[dB]	[dB/100m]	[dB]	[dB]	[dB/100m]	[dB/100m]	[dB/100m]
Cat 5								300/500 V
1	1,8	77	75	-	74	72	75	72
4	3,6	70	66	27	67	63	62	59
10	6,0	65	59	30	62	56	56	53
16	7,6	64	56	30	61	53	52	49
20	8,6	62	53	30	59	50	50	47
31.25	11,0	59	48	30	56	45	47	44

HF-CAT 5e-UTP

Özellikler / Features

100 Mhz 100 Ohm Pe izoleli data kabloları
100 Mhz 100 Ohm Pe insulation data cable

Kablo Yapısı / Cable Structure

1. **İletken:** Tek telli som bakır
 2. **İzole:** PE
 3. **Kılıf:** HFFR
-
1. **Conductor:** Rigit copper
 2. **Insulation:** PE
 3. **Sheath:** HFFR

Electrical Properties

DC loop resistance		< 188 ohm/km
Resistance unbalance		< 2 %
Characteristic impedance	1 - 100MHz	100 ± 15 ohm
Insulation resistance	[500V]	≥ 5000 Mohmxkm
Capacitance	at 800 Hz	Nom. 52 nF/km
Capacitance unbalance	[pair to ground]	Nom. < 300 pF/km
Nominal Characteristic impedance	at 100 MHz	100 ± 5 ohm
Nominal velocity of propagation		0,64 c
Propagation delay	at 100MHz	Nominal 530 ns/100m
Delay skew	< 100 MHz	Nominal < 20 ns/100 m
Coupling attenuation		≥ 40 dB

Technical data

F	Attenuation	on NEXT	ACR	Returnloss	PSNEXT	PS-ACR	ELFEX	PS-ELFEXT
[MHZ]	[dB/100m]	[dB]	[dB/100m]	[dB]	[dB]	[dB/100m]	[dB/100m]	[dB/100m]
Cat 5								
300/500 V								
1	1,8	77	75	-	74	72	75	72
4	3,6	70	66	27	67	63	62	59
10	6,0	65	59	30	62	56	56	53
16	7,6	64	56	30	61	53	52	49
20	8,6	62	53	30	59	50	50	47
31.25	11,0	59	48	30	56	45	47	44



HF-CAT 5e-FTP

Özellikler / Features

100 Mhz 100 Ohm Pe izoleli ekranlı data kabloları
100 Mhz 100 Ohm Pe insulation screened data cable

Kablo Yapısı / Cable Structure

1. **İletken:** Tek telli som bakır
 2. **İzole:** PE
 3. **Ekran:** Al-pes
 4. **Kılıf:** HFFR
1. **Conductor:** Rigit copper
 2. **Insulation:** PE
 3. **Screen:** Al-pes
 4. **Sheath:** HFFR

Electrical Properties

DC loop resistance		< 188 ohm/km
Resistance unbalance		< 2 %
Characteristic impedance	1 - 100MHz	100 ± 15 ohm
Insulation resistance	[500V]	≥ 5000 Mohmxkm
Capacitance	at 800 Hz	Nom. 52 nF/km
Capacitance unbalance	[pair to ground]	Nom. < 300 pF/km
Nominal Characteristic impedance	at 100 MHz	100 ± 5 ohm
Nominal velocity of propagation		0,64 c
Propagation delay	at 100MHz	Nominal 530 ns/100m
Delay skew	< 100 MHz	Nominal < 20 ns/100 m
Coupling attenuation		≥ 40 dB

Technical data

F	Attenuation	on NEXT	ACR	Returnloss	PSNEXT	PS-ACR	ELFEX	PS-ELFEXT
[MHZ]	[dB/100m]	[dB]	[dB/100m]	[dB]	[dB]	[dB/100m]	[dB/100m]	[dB/100m]
Cat 5								300/500 V
1	1,8	77	75	-	74	72	75	72
4	3,6	70	66	27	67	63	62	59
10	6,0	65	59	30	62	56	56	53
16	7,6	64	56	30	61	53	52	49
20	8,6	62	53	30	59	50	50	47
31.25	11,0	59	48	30	56	45	47	44

CAT 6e-UTP

Özellikler / Features

250 Mhz 100 Ohm Pe izoleli data kabloları
250 Mhz 100 Ohm Pe insilation data cable

Kablo Yapısı / Cable Structure

1. **İletken:** Tek telli som bakır
 2. **İzole:** PE
 3. **Ayırıcı:** PE Yıldız
 4. **Kılıf:** PVC
1. **Conductor:** Rigit copper
 2. **Insilation:** PE
 3. **Seperator:** PE Star
 4. **Sheath:** PVC

Electrical Properties

DC loop resistance	< 176 ohm/km
Resistance unbalance	< 2 %
Insulation resistance (500 V)	> 5000 Mohm *km
Capacitance at 800 Hz	Nom. 48 nF/km
Capacitance unbalance (pair to ground)	< 1500 pF/km
Mean impedance 100 MHz	100 ± 5 ohm
Nominal velocity of propagation	Approx. 67 %
Propagation delay	Nominal 535 ns/100m
Delay skew	Nominal 20 ns/100m
Test voltage (DC, 1 min) Core/Core	1000 V

Electrical data (nominal)

F	Attenuation		Next		Ps-Next		Acr		Ps-Acr		Elfext		Ps-Elfext		Return Loss
[MHZ]	[dB/100m]		[dB]		[dB]		[dB/100m]		[dB/100m]		[dB/100m]		[dB/100m]		[dB]
	max.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	max.	nom.	max.	nom.	min.
Cat 6															300/500 V
1	2.1	1,9	74	78	72	75	72.0	76.1	70.0	73.1	56	82	65	80	20
4	3,8	3,8	65	69	63	66	61.2	65.2	59.2	62.2	63	70	53	68	23
10	6,0	6,0	59	63	57	60	53.0	57.0	51.0	54.0	48	62	45	60	25
16	7,6	7,6	56	60	54	57	48.4	52.3	46.4	49.3	44	58	41	56	25
20	8,5	8,5	55	59	53	56	46.5	50.0	44.5	47.0	42	56	39	54	25
31.2	10,7	10,7	52	56	50	53	41.3	45.0	39.3	42.0	38	52	35	50	23,6



CAT 6e-FTP

Özellikler / Features

250 Mhz 100 Ohm Pe izoleli data kabloları

250 Mhz 100 Ohm Pe insulation data cable

Kablo Yapısı / Cable Structure

1. İletken: Tek telli som bakır
 2. İzole: PE
 3. Ayırıcı: PE Yıldız
 4. Ekran: Al-pes
 5. Kılıf: PVC
1. Conductor: Rigit copper
 2. Insulation: PE
 3. Seperator: PE Star
 4. Screen: Al-pes
 5. Sheath: PVC

Electrical Properties

DC loop resistance	< 176 ohm/km
Resistance unbalance	< 2 %
Insulation resistance [500 V]	> 5000 Mohm *km
Capacitance at 800 Hz	Nom. 48 nF/km
Capacitance unbalance [pair to ground]	< 1500 pF/km
Mean impedance 100 MHz	100 ± 5 ohm
Nominal velocity of propagation	Approx. 67 %
Propagation delay	Nominal 535 ns/100m
Delay skew	Nominal 20 ns/100m
Test voltage [DC, 1 min] Core/Core	1000 V

Electrical data (nominal)

F	Attenuation		Next		Ps-Next		Acr		Ps-Acr		Elfext		Ps-Elfext		Return Loss
[MHZ]	[dB/100m]	[dB/100m]	[dB]	[dB]	[dB]	[dB]	[dB/100m]	[dB/100m]	[dB/100m]	[dB/100m]	[dB/100m]	[dB/100m]	[dB/100m]	[dB/100m]	[dB]
	max.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	max.	nom.	max.	nom.	min.
Cat 6															300/500 V
1	2.1	1.9	74	78	72	75	72.0	76.1	70.0	73.1	56	82	65	80	20
4	3,8	3,8	65	69	63	66	61.2	65.2	59.2	62.2	63	70	53	68	23
10	6,0	6,0	59	63	57	60	53.0	57.0	51.0	54.0	48	62	45	60	25
16	7,6	7,6	56	60	54	57	48.4	52.3	46.4	49.3	44	58	41	56	25
20	8,5	8,5	55	59	53	56	46.5	50.0	44.5	47.0	42	56	39	54	25
31.2	10,7	10,7	52	56	50	53	41.3	45.0	39.3	42.0	38	52	35	50	23,6

HF-CAT 6e-UTP

Özellikler / Features

250 Mhz 100 Ohm Pe izoleli data kabloları
250 Mhz 100 Ohm Pe insilation data cable

Kablo Yapısı / Cable Structure

1. **İletken:** Tek telli som bakır
 2. **İzole:** PE
 3. **Ayrıcı:** PE Yıldız
 4. **Kılıf:** HFFR
1. **Conductor:** Rigit copper
 2. **Insilation:** PE
 3. **Seperator:** PE Star
 4. **Sheath:** HFFR

Electrical Properties

DC loop resistance	< 176 ohm/km
Resistance unbalance	< 2 %
Insulation resistance (500 V)	> 5000 Mohm *km
Capacitance at 800 Hz	Nom. 48 nF/km
Capacitance unbalance (pair to ground)	< 1500 pF/km
Mean impedance 100 MHz	100 ± 5 ohm
Nominal velocity of propagation	Approx. 67 %
Propagation delay	Nominal 535 ns/100m
Delay skew	Nominal 20 ns/100m
Test voltage (DC, 1 min) Core/Core	1000 V

Electrical data (nominal)

F	Attenuation		Next		Ps-Next		Acr		Ps-Acr		Elfext		Ps-Elfext		Return Loss
[MHZ]	[dB/100m]		[dB]		[dB]		[dB/100m]		[dB/100m]		[dB/100m]		[dB/100m]		[dB]
	max.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	max.	nom.	max.	nom.	min.
Cat 6															300/500 V
1	2.1	1,9	74	78	72	75	72.0	76.1	70.0	73.1	56	82	65	80	20
4	3,8	3,8	65	69	63	66	61.2	65.2	59.2	62.2	63	70	53	68	23
10	6,0	6,0	59	63	57	60	53.0	57.0	51.0	54.0	48	62	45	60	25
16	7,6	7,6	56	60	54	57	48.4	52.3	46.4	49.3	44	58	41	56	25
20	8,5	8,5	55	59	53	56	46.5	50.0	44.5	47.0	42	56	39	54	25
31.2	10,7	10,7	52	56	50	53	41.3	45.0	39.3	42.0	38	52	35	50	23,6



HF-CAT 6e-FTP

Özellikler / Features

250 Mhz 100 Ohm Pe izoleli data kabloları

250 Mhz 100 Ohm Pe insulation data cable

Kablo Yapısı / Cable Structure

1. **İletken:** Tek telli som bakır
 2. **İzole:** PE
 3. **Ayırıcı:** PE Yıldız
 4. **Ekran:** Al-pes
 5. **Kılıf:** HFFR
1. **Conductor:** Rigit copper
 2. **Insulation:** PE
 3. **Seperator:** PE Star
 4. **Screen:** Al-pes
 5. **Sheath:** HFFR

Electrical Properties

DC loop resistance	< 176 ohm/km
Resistance unbalance	< 2 %
Insulation resistance [500 V]	> 5000 Mohm *km
Capacitance at 800 Hz	Nom. 48 nF/km
Capacitance unbalance [pair to ground]	< 1500 pF/km
Mean impedance 100 MHz	100 ± 5 ohm
Nominal velocity of propagation	Approx. 67 %
Propagation delay	Nominal 535 ns/100m
Delay skew	Nominal 20 ns/100m
Test voltage [DC, 1 min] Core/Core	1000 V

Electrical data (nominal)

F	Attenuation		Next		Ps-Next		Acr		Ps-Acr		Elfext		Ps-Elfext		Return Loss
[MHZ]	[dB/100m]	max. nom.	[dB]	min. nom.	[dB]	min. nom.	[dB/100m]	min. nom.	[dB/100m]	min. nom.	[dB/100m]	max. nom.	[dB/100m]	max. nom.	[dB]
Cat 6															300/500 V
1	2.1	1,9	74	78	72	75	72.0	76.1	70.0	73.1	56	82	65	80	20
4	3,8	3,8	65	69	63	66	61.2	65.2	59.2	62.2	63	70	53	68	23
10	6,0	6,0	59	63	57	60	53.0	57.0	51.0	54.0	48	62	45	60	25
16	7,6	7,6	56	60	54	57	48.4	52.3	46.4	49.3	44	58	41	56	25
20	8,5	8,5	55	59	53	56	46.5	50.0	44.5	47.0	42	56	39	54	25
31.2	10,7	10,7	52	56	50	53	41.3	45.0	39.3	42.0	38	52	35	50	23,6

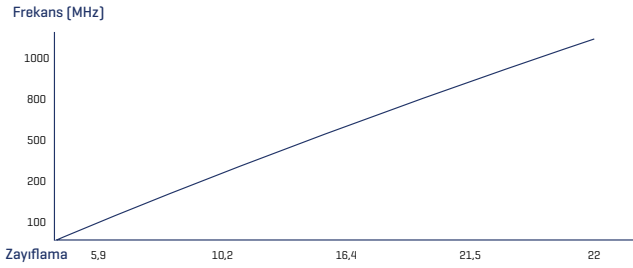


CCTV 2+Coax / 4+Coax/ 12+Coax

Özellikler / Features

Kapalı Devre TV ve kamera sistem kabloları
Closed circuit tv and camera systems cables

Koaksiyel Zayıflamaları / Coaxial Attenuations



Kapasitans	Empedans	Yayıma Hızı	İzolasyon Direnci	Çalışma Sıcaklığı	Çalışma Gerilimi	Test Gerilimi	Min. Bükme Yarıçapı
pF/m.	ohm	mm ²	Mohm km	°C	kV	kV	xØ
57	75+3	0,78	>2000	-40°C+70	1,1kV	2,5kV	300
Zayıflama	100	200	500	800	1000		
Weakening	9	13	20,6	26,5	30		

Kablo Yapısı / Cable Structure

Koaksiyel / Coaxial

1. **İletken:** Çok telli som bakır
2. **İzole:** Köpük PE
3. **Ekran1:** Al-pes
4. **Ekran2:** Kalaylı bakır
5. **Kılıf:** PVC

1. **Conductor:** Flexible copper
2. **Insulation:** Foam PE
3. **Screen1:** Al-pes
4. **Screen2:** Tinned copper
5. **Sheath:** PVC

Veri / Data

1. **İletken:** Çok telli som bakır
2. **İzole:** PVC

1. **Conductor:** Flexible copper
2. **Insulation:** PVC

Enerji / Energy

1. **İletken:** Çok telli som bakır
2. **İzole:** PVC

1. **Conductor:** Flexible copper
2. **Insulation:** PVC

Genel kablo yapısı / Cable construction

1. **Büküm**
2. **Toprak teli:** Çok telli kalaylı bakır
3. **Ekran:** Al-pes
4. **Kılıf:** PVC

1. **Stranding**
2. **Drain wire:** Tinned copper
3. **Screen:** Al-Pes
4. **Sheath:** PVC

Kapasitans	Empedans	Yayımla Hızı	İzolasyon Direnci	Çalışma Sıcaklığı	Çalışma Gerilimi	Test Gerilimi	Min. Bükme Yarıçapı
pF/m.	ohm	mm ²	Mohm km	°C	kV	kV	xD

CCTV**300/500 V**

53	75+3	0,66	>200	-30°C+70	1,5kV	2,5kV	15
Zayıflama Weakening	10	20	50	80	100		
	5,5	8,0	12,3	15,3	17,2		

PVC Kılıflı (0.50mm², 0.25mm² Damarlar Kalaylı Bakır)

Kablo Tanımı	Kontrol Damarı / İletken Tipi	Kablo Çapı (mm)	Kablo Ağırlığı (Kg/Km)
CCTV 2+1 (Mini Coax+2x0.50mm ²)	Bükülü Elektrolitik Kalaylı Bakır Tel	5.4	40
CCTV 3+1 (Mini Coax+2x0.50mm ² +1x0.25mm ²)	Bükülü Elektrolitik Kalaylı Bakır Tel	5.7	46
CCTV 4+1 (Mini Coax+2x0.50mm ² +2x0.25mm ²)	Bükülü Elektrolitik Kalaylı Bakır Tel	6.0	52
CCTV 5+1 (Mini Coax+2x0.50mm ² +3x0.25mm ²)	Bükülü Elektrolitik Kalaylı Bakır Tel	6.7	60
CCTV 6+1 (Mini Coax+2x0.50mm ² +4x0.25mm ²)	Bükülü Elektrolitik Kalaylı Bakır Tel	6.8	70
CCTV 4+1+SES (Mini Coax+2x0.50mm ² +2x0.25mm ² +SES)	Bükülü Elektrolitik Kalaylı Bakır Tel	6.7	66
CCTV 12+1 (Mini Coax+12x0.25mm ²)	Bükülü Elektrolitik Kalaylı Bakır Tel	7.8	88

PVC Kılıflı (0.25mm² Damarlar Tavlı Bakır)

Kablo Tanımı	Kontrol Damarı / İletken Tipi	Kablo Çapı (mm)	Kablo Ağırlığı (Kg/Km)
CCTV 2+1 (Mini Coax+2x0.25mm ²)	Tavlı Bakır Tel	5.2	32
CCTV 3+1 (Mini Coax+3x0.25mm ²)	Tavlı Bakır Tel	5.3	36
CCTV 4+1 (Mini Coax+4x0.25mm ²)	Tavlı Bakır Tel	5.5	40
CCTV 5+1 (Mini Coax+5x0.25mm ²)	Tavlı Bakır Tel	6.1	48
CCTV 6+1 (Mini Coax+6x0.25mm ²)	Tavlı Bakır Tel	6.3	56

PE Kılıflı (0.50mm², 0.25mm² Damarlar Kalaylı Bakır)

Kablo Tanımı	Kontrol Damarı / İletken Tipi	Kablo Çapı (mm)	Kablo Ağırlığı (Kg/Km)
CCTV 2+1 P (Mini Coax+2x0.50mm ²)	Bükülü Elektrolitik Kalaylı Bakır Tel	5.4	36
CCTV 3+1 P (Mini Coax+2x0.50mm ² +1x0.25mm ²)	Bükülü Elektrolitik Kalaylı Bakır Tel	5.7	41
CCTV 4+1 P (Mini Coax+2x0.50mm ² +2x0.25mm ²)	Bükülü Elektrolitik Kalaylı Bakır Tel	6.0	47

Halojensiz Malzeme Kullanılan Tipler (0.50mm², 0.25mm² Damarlar Kalaylı Bakır)

Kablo Tanımı	Kontrol Damarı / İletken Tipi	Kablo Çapı (mm)	Kablo Ağırlığı (Kg/Km)
CCTV 2+1 HF (Mini Coax+2x0.50mm ²)	Bükülü Elektrolitik Kalaylı Bakır Tel	5.4	42
CCTV 3+1 HF (Mini Coax+2x0.50mm ² +1x0.25mm ²)	Bükülü Elektrolitik Kalaylı Bakır Tel	5.7	48
CCTV 4+1 HF (Mini Coax+2x0.50mm ² +2x0.25mm ²)	Bükülü Elektrolitik Kalaylı Bakır Tel	6.0	55
CCTV 5+1 HF (Mini Coax+2x0.50mm ² +3x0.25mm ²)	Bükülü Elektrolitik Kalaylı Bakır Tel	6.7	63
CCTV 6+1 HF (Mini Coax+2x0.50mm ² +4x0.25mm ²)	Bükülü Elektrolitik Kalaylı Bakır Tel	6.8	73
CCTV12+1 HF (Mini Coax+12x0.25mm ²)	Bükülü Elektrolitik Kalaylı Bakır Tel	7.8	92

Alternatif Tipler

- CCTV 2+1 (Mini Coax+2x0.75mm²)
- CCTV 2+1 (RG 6+2x1.00mm²)
- CCTV 4+1 (Mini Coax+2x0.75mm²+2x0.25mm²)
- CCTV 4+1 (RG 6 + 2x0.75mm²+2x0.34mm²)
- CCTV 4+1 (RG 59 + 4x0.34mm²)
- CCTV 4+1 (RG 6 + 4x0.75mm²)
- CCTV 4+1 (RG 6 + 4x1.00mm²)
- CCTV 4+1 (RG 11 + 4x0.75mm²)
- CCTV 4+1 (RG 11 + 4x1.00mm²)
- CCTV12+1 (RG 6 + 12x0.75mm²)

RG 59-U/4

Özellikler / Features

CATV/CCTV Sistem dağıtım kablosu

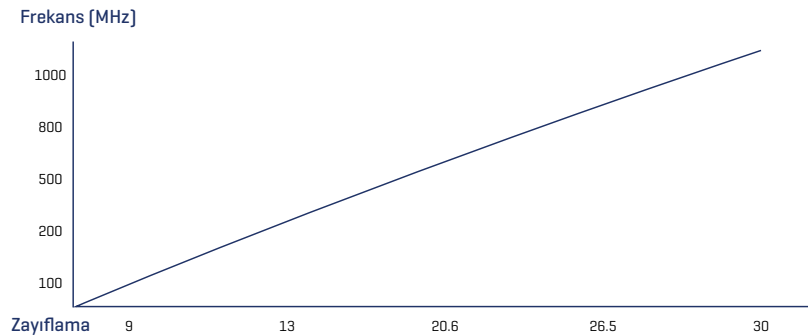
CATV/CCTV System distribution cable

Kablo Yapısı / Cable Structure

1. **İletken:** Tek telli som bakır
2. **İzole:** Köpük PE
3. **Ekran1:** Al-pes
4. **Ekran2:** Kalaylı bakır
5. **Kılıf:** PVC

1. **Conductor:** Rigit copper
2. **Insulation:** Foam PE
3. **Screen1:** Al-pes
4. **Screen2:** Tinned copper
5. **Sheath:** PVC

Kapasitans	Empedans	Yayıma Hızı	İzolasyon Direnci	Çalışma Sıcaklığı	Çalışma Gerilimi	Test Gerilimi	Min. Bükme Yarıçapı
pF/m.	ohm	mm ²	Mohm km	°C	kV	kV	xD
57	75+3	0.78	>2000	-40°C+70	1,1kV	2,5kV	300
Zayıflama Weakening	100	200	500	800	1000		
	9	13	20,6	26,5	30		





RG 59-U/6

Özellikler / Features

CATV/CCTV Sistem dağıtım kablosu

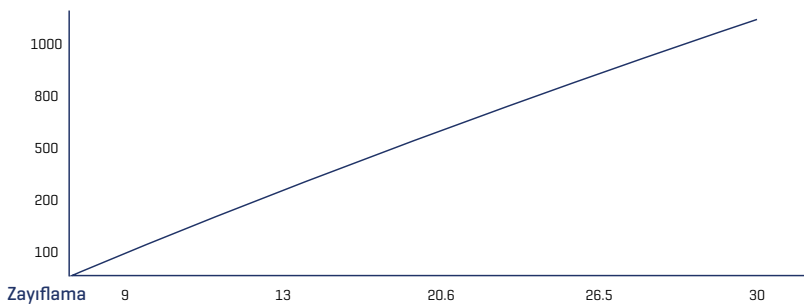
CATV/CCTV System distribution cable

Kablo Yapısı / Cable Structure

1. **İletken:** Tek telli som bakır
 2. **İzole:** Köpük PE
 3. **Ekran1:** Cu-pes
 4. **Ekran2:** Som bakır
 5. **Kılıf:** PVC
1. **Conductor:** Flexible copper
 2. **Insulation:** Foam PE
 3. **Screen1:** Cu-pes
 4. **Screen2:** Copper
 5. **Sheath:** PVC

Kapasitans	Empedans	Yayımlama Hızı	İzolasyon Direnci	Çalışma Sıcaklığı	Çalışma Gerilimi	Test Gerilimi	Min. Bükme Yarıçapı
pF/m.	ohm	mm ²	Mohm km	°C	kV	kV	xD
57	75+3	0.78	>2000	-40°C+70	1,1kV	2,5kV	300
Zayıflama Weakening	100	200	500	800	1000		
	9	13	20,6	26,5	30		

Frekans [MHz]



RG 59-U/4-HF

Özellikler / Features

CATV/CCTV Sistem dağıtım kablosu

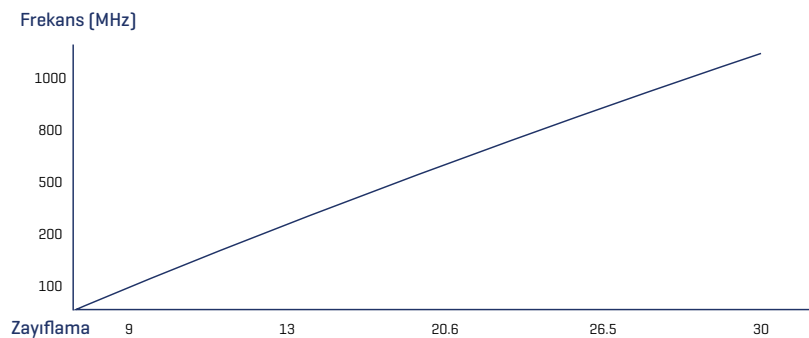
CATV/CCTV System distribution cable

Kablo Yapısı / Cable Structure

1. **İletken:** Tek telli som bakır
2. **İzole:** Köpük PE
3. **Ekran1:** Al-pes
4. **Ekran2:** Kalaylı bakır
5. **Kılıf:** HFFR

1. **Conductor:** Rigit copper
2. **Insulation:** Foam PE
3. **Screen1:** Al-pes
4. **Screen2:** Tinned copper
5. **Sheath:** HFFR

Kapasitans	Empedans	Yayımla Hızı	İzolasyon Direnci	Çalışma Sıcaklığı	Çalışma Gerilimi	Test Gerilimi	Min. Bükme Yarıçapı
pF/m.	ohm	mm ²	Mohm km	°C	kV	kV	xD
57	75+3	0.78	>2000	-40°C+70	1,1kV	2,5kV	300
Zayıflama Weakening	100	200	500	800	1000		
	9	13	20,6	26,5	30		





RG 59-U/6-HF

Özellikler / Features

CATV/CCTV Sistem dağıtım kablosu

CATV/CCTV System distribution cable

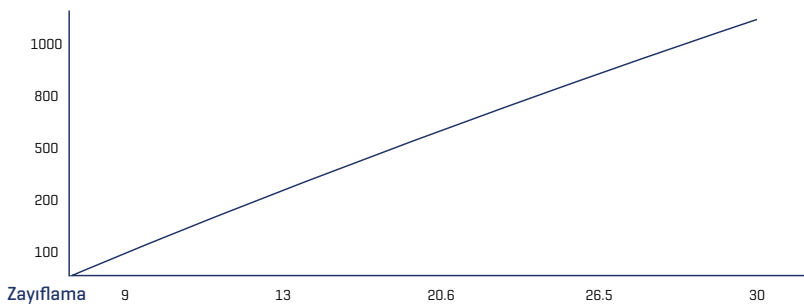
Kablo Yapısı / Cable Structure

1. **İletken:** Tek telli som bakır
2. **İzole:** Köpük PE
3. **Ekran1:** Cu-pes
4. **Ekran2:** Som bakır
5. **Kılıf:** HFFR

1. **Conductor:** Flexible copper
2. **Insulation:** Foam PE
3. **Screen1:** Cu-pes
4. **Screen2:** Copper
5. **Sheath:** HFFR

Kapasitans	Empedans	Yayımlama Hızı	İzolasyon Direnci	Çalışma Sıcaklığı	Çalışma Gerilimi	Test Gerilimi	Min. Bükme Yarıçapı
pF/m.	ohm	mm ²	Mohm km	°C	kV	kV	xD
57	75+3	0.78	>2000	-40°C+70	1,1kV	2,5kV	300
Zayıflama Weakening	100	200	500	800	1000		
	9	13	20,6	26,5	30		

Frekans [MHz]



RG 6-U/4

Özellikler / Features

CATV/CCTV Sistem dağıtım kablosu

CATV/CCTV System distribution cable

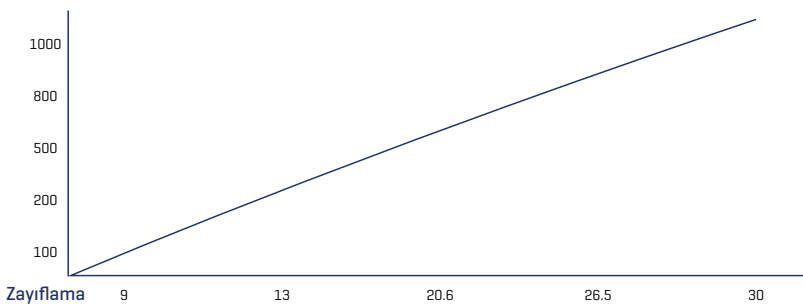
Kablo Yapısı / Cable Structure

1. **İletken:** Tek telli som bakır
2. **İzole:** Köpük PE
3. **Ekran1:** Al-pes
4. **Ekran2:** Kalaylı bakır
5. **Kılıf:** PVC

1. **Conductor:** Rigit copper
2. **Insulation:** Foam PE
3. **Screen1:** Al-pes
4. **Screen2:** Tinned copper
5. **Sheath:** PVC

Kapasitans	Empedans	Yayıma Hızı	İzolasyon Direnci	Çalışma Sıcaklığı	Çalışma Gerilimi	Test Gerilimi	Min. Bükme Yarıçapı
pF/m.	ohm	mm ²	Mohm km	°C	kV	kV	xD
57	75+3	0.78	>2000	-40°C+70	1,1kV	3kV	10
RG 6 /U-4							
Zayıflama	100	200	500	800	1000		
Weakening	7,5	10,6	17	20,5	22		
RG 6 /U-6							
Zayıflama	100	200	500	800	1000		
Weakening	6,9	10,2	16,4	21,5	22		

Frekans [MHz]





RG 6-U/6

Özellikler / Features

CATV/CCTV Sistem dağıtım kablosu

CATV/CCTV System distribution cable

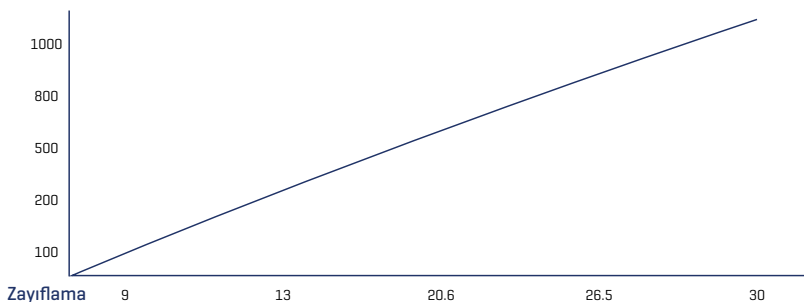
Kablo Yapısı / Cable Structure

1. **İletken:** Tek telli som bakır
2. **İzole:** Köpük PE
3. **Ekran1:** Cu-pes
4. **Ekran2:** Som bakır
5. **Kılıf:** PVC

1. **Conductor:** Flexible copper
2. **Insulation:** Foam PE
3. **Screen1:** Cu-pes
4. **Screen2:** Copper
5. **Sheath:** PVC

Kapasitans	Empedans	Yayıma Hızı	İzolasyon Direnci	Çalışma Sıcaklığı	Çalışma Gerilimi	Test Gerilimi	Min. Bükme Yarıçapı
pF/m.	ohm	mm ²	Mohm km	°C	kV	kV	xD
57	75+3	0.78	>2000	-40°C+70	1,1kV	3kV	10
RG 6 /U-4							
Zayıflama	100	200	500	800	1000		
Weakening	7,5	10,6	17	20,5	22		
RG 6 /U-6							
Zayıflama	100	200	500	800	1000		
Weakening	6,9	10,2	16,4	21,5	22		

Frekans [MHz]



RG 6-U/4-HF

Özellikler / Features

CATV/CCTV Sistem dağıtım kablosu

CATV/CCTV System distribution cable

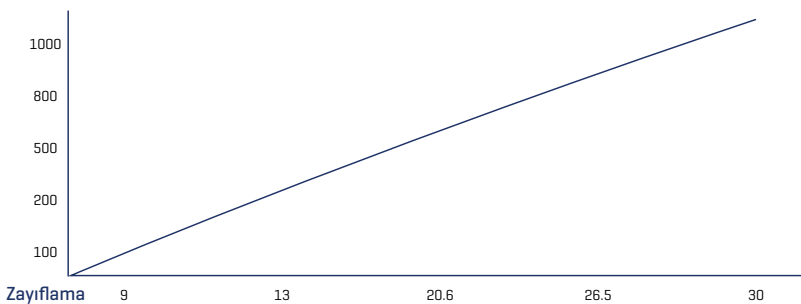
Kablo Yapısı / Cable Structure

1. **İletken:** Tek telli som bakır
2. **İzole:** Köpük PE
3. **Ekran1:** Al-pes
4. **Ekran2:** Kalaylı bakır
5. **Kılıf:** HFFR

1. **Conductor:** Rigit copper
2. **Insulation:** Foam PE
3. **Screen1:** Al-pes
4. **Screen2:** Tinned copper
5. **Sheath:** HFFR

Kapasitans	Empedans	Yayıma Hızı	İzolasyon Direnci	Çalışma Sıcaklığı	Çalışma Gerilimi	Test Gerilimi	Min. Bükme Yarıçapı
pF/m.	ohm	mm ²	Mohm km	°C	kV	kV	xD
57	75+3	0.78	>2000	-40°C+70	1,1kV	3kV	10
RG 6 /U-4							
Zayıflama	100	200	500	800	1000		
Weakening	7,5	10,6	17	20,5	22		
RG 6 /U-6							
Zayıflama	100	200	500	800	1000		
Weakening	6,9	10,2	16,4	21,5	22		

Frekans [MHz]





RG 6-U/6-HF

Özellikler / Features

CATV/CCTV Sistem dağıtım kablosu

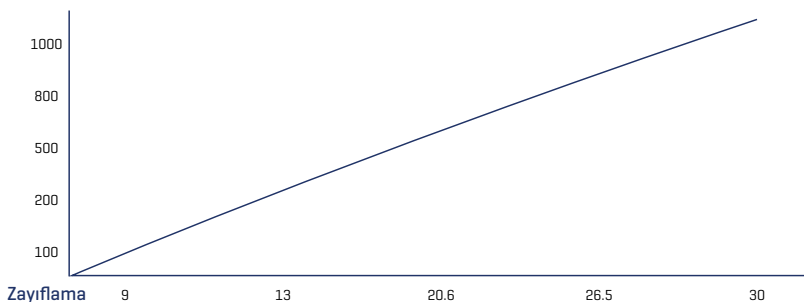
CATV/CCTV System distribution cable

Kablo Yapısı / Cable Structure

1. **İletken:** Tek telli som bakır
 2. **İzole:** Köpük PE
 3. **Ekran1:** Cu-pes
 4. **Ekran2:** Som bakır
 5. **Kılıf:** HFFR
1. **Conductor:** Flexible copper
 2. **Insulation:** Foam PE
 3. **Screen1:** Cu-pes
 4. **Screen2:** Copper
 5. **Sheath:** HFFR

Kapasitans	Empedans	Yayıma Hızı	İzolasyon Direnci	Çalışma Sıcaklığı	Çalışma Gerilimi	Test Gerilimi	Min. Bükme Yarıçapı
pF/m.	ohm	mm ²	Mohm km	°C	kV	kV	xD
57	75+3	0.78	>2000	-40°C+70	1,1kV	3kV	10
RG 6 /U-4							
Zayıflama	100	200	500	800	1000		
Weakening	7,5	10,6	17	20,5	22		
RG 6 /U-6							
Zayıflama	100	200	500	800	1000		
Weakening	6,9	10,2	16,4	21,5	22		

Frekans [MHz]



RG 11-U/4

Özellikler / Features

CATV/CCTV Sistem dağıtım kablosu

CATV/CCTV System distribution cable

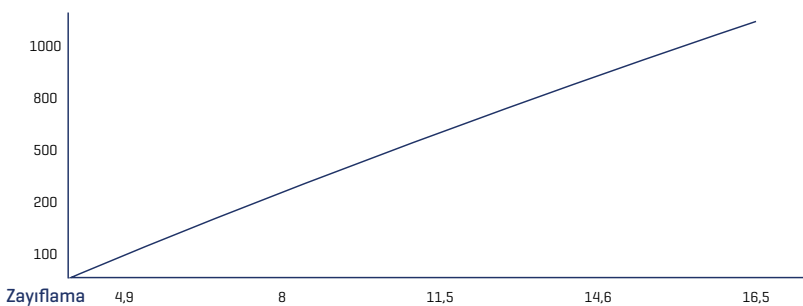
Kablo Yapısı / Cable Structure

1. **İletken:** Tek telli som bakır
2. **İzole:** Köpük PE
3. **Ekran1:** Al-pes
4. **Ekran2:** Kalaylı bakır
5. **Kılıf:** PVC

1. **Conductor:** Rigit copper
2. **Insulation:** Foam PE
3. **Screen1:** Al-pes
4. **Screen2:** Tinned copper
5. **Sheath:** PVC

Kapasitans	Empedans	Yayıma Hızı	İzolasyon Direnci	Çalışma Sıcaklığı	Çalışma Gerilimi	Test Gerilimi	Min. Bükme Yarıçapı
pF/m.	ohm	mm ²	Mohm km	°C	kV	kV	xD
57	75+3	0.78	>2000	-40°C+70	2kV	3kV	10
Zayıflama Weakening	100	200	500	800	1000		
	4,9	8	11,5	14,6	16,5		

Frekans [MHz]





RG 11-U/6

Özellikler / Features

CATV/CCTV Sistem dağıtım kablosu

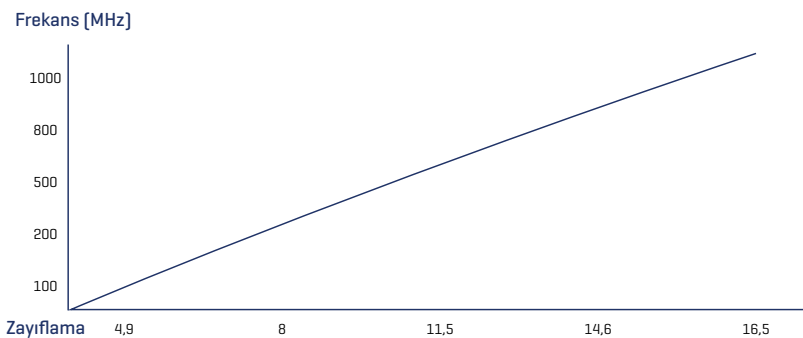
CATV/CCTV System distribution cable

Kablo Yapısı / Cable Structure

1. **İletken:** Tek telli som bakır
2. **İzole:** Köpük PE
3. **Ekran1:** Cu-pes
4. **Ekran2:** Som bakır
5. **Kılıf:** PVC

1. **Conductor:** Flexible copper
2. **Insulation:** Foam PE
3. **Screen1:** Cu-pes
4. **Screen2:** Copper
5. **Sheath:** PVC

Kapasitans	Empedans	Yayıma Hızı	İzolasyon Direnci	Çalışma Sıcaklığı	Çalışma Gerilimi	Test Gerilimi	Min. Bükme Yarıçapı
pF/m.	ohm	mm ²	Mohm km	°C	kV	kV	xD
57	75+3	0.78	>2000	-40°C+70	2kV	3kV	10
Zayıflama Weakening	100	200	500	800	1000		
	4,9	8	11,5	14,6	16,5		



RG 11-U/4-HF

Özellikler / Features

CATV/CCTV Sistem dağıtım kablosu

CATV/CCTV System distribution cable

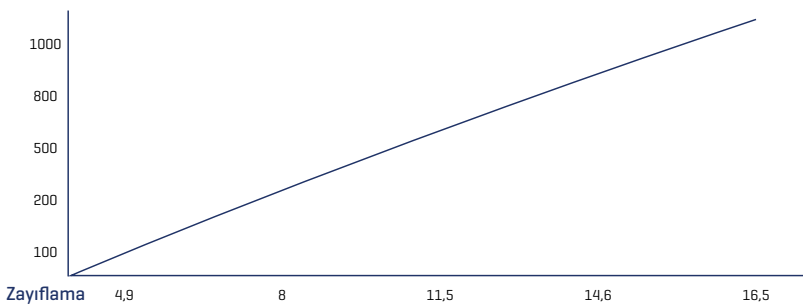
Kablo Yapısı / Cable Structure

1. **İletken:** Tek telli som bakır
2. **İzole:** Köpük PE
3. **Ekran1:** Al-pes
4. **Ekran2:** Kalaylı bakır
5. **Kılıf:** HFFR

1. **Conductor:** Rigit copper
2. **Insulation:** Foam PE
3. **Screen1:** Al-pes
4. **Screen2:** Tinned copper
5. **Sheath:** HFFR

Kapasitans	Empedans	Yayıma Hızı	İzolasyon Direnci	Çalışma Sıcaklığı	Çalışma Gerilimi	Test Gerilimi	Min. Bükme Yarıçapı
pF/m.	ohm	mm ²	Mohm km	°C	kV	kV	xD
57	75+3	0.78	>2000	-40°C+70	2kV	3kV	10
Zayıflama Weakening	100	200	500	800	1000		
	4,9	8	11,5	14,6	16,5		

Frekans [MHz]





RG 11-U/6-HF

Özellikler / Features

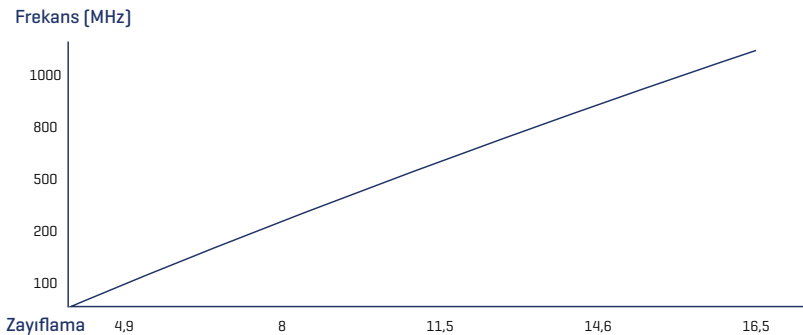
CATV/CCTV Sistem dağıtım kablosu

CATV/CCTV System distribution cable

Kablo Yapısı / Cable Structure

1. **İletken:** Tek telli som bakır
 2. **İzole:** Köpük PE
 3. **Ekran1:** Cu-pes
 4. **Ekran2:** Som bakır
 5. **Kılıf:** HFFR
1. **Conductor:** Flexible copper
 2. **Insulation:** Foam PE
 3. **Screen1:** Cu-pes
 4. **Screen2:** Copper
 5. **Sheath:** HFFR

Kapasitans	Empedans	Yayıma Hızı	İzolasyon Direnci	Çalışma Sıcaklığı	Çalışma Gerilimi	Test Gerilimi	Min. Bükme Yarıçapı
pF/m.	ohm	mm ²	Mohm km	°C	kV	kV	xD
57	75+3	0.78	>2000	-40°C+70	2kV	3kV	10
Zayıflama Weakening	100	200	500	800	1000		
	4,9	8	11,5	14,6	16,5		



RG 58

Özellikler / Features

Telsiz ve veri iletişim sistem bağlantı kabloları

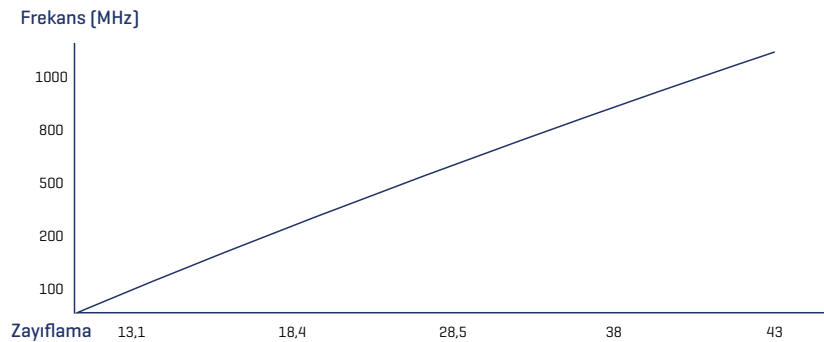
Wireless and data connection system cables

Kablo Yapısı / Cable Structure

1. **İletken:** Çok telli som bakır
2. **İzole:** Solid Pe
3. **Ekran1:** Cu-pes
4. **Ekran2:** Bakır
5. **Kılıf:** PVC

1. **Conductor:** Flexible copper
2. **Insulation:** Solid Pe
3. **Screen1:** Cu-pes
4. **Screen2:** Copper
5. **Sheath:** PVC

Kapasitans	Empedans	Yayıma Hızı	İzolasyon Direnci	Çalışma Sıcaklığı	Çalışma Gerilimi	Test Gerilimi	Min. Bükme Yarıçapı
pF/m.	ohm	mm ²	Mohm km	°C	kV	kV	xD
RG 58 /U							
93,5	53,5+2	0,66	>2000	-40°C+70	2,5kV	5kV	15
Zayıflama Weakening	100	200	500	800	1000		
	13,1	18,4	28,5	38	43		





RG 213

Özellikler / Features

Telsiz ve veri iletişim sistem bağlantı kabloları

Wireless and data connection system cables

Kablo Yapısı / Cable Structure

1. **İletken:** Çok telli som bakır
2. **İzole:** Solid Pe
3. **Ekran2:** Bakır
4. **Kılıf:** PVC

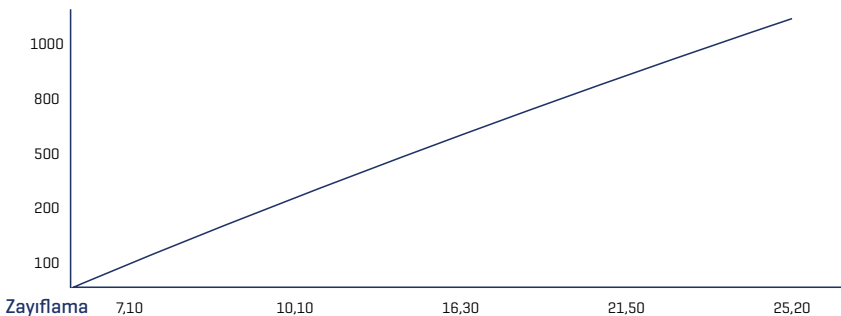
1. **Conductor:** Flexible copper
2. **Insulation:** Solid Pe
3. **Screen2:** Copper
4. **Sheath:** PVC

Kapasitans	Empedans	Yayıma Hızı	İzolasyon Direnci	Çalışma Sıcaklığı	Çalışma Gerilimi	Test Gerilimi	Min. Bükme Yarıçapı
pF/m.	ohm	mm ²	Mohm km	°C	kV	kV	xD

RG 213 /U

101	50+2	0,66	>2000	-40°C+70	2,5kV	5kV	15
Zayıflama Weakening	100	200	500	800	1000		
	7,10	10,10	16,30	21,50	25,20		

Frekans [MHz]



PROFIBUS

Özellikler / Features

Otomasyon iletişim ağı kabloları
Automation networking cables

Kablo Yapısı / Cable Structure

1. **İletken:** Tek telli som bakır
2. **İzole:** Köpük PE
3. **Bant:** Pes Bant
4. **Ekran1:** Alüminyum lamineli polyester bant
5. **Ekran2:** Kalaylı bakır örgü
6. **Kılıf:** FR PVC

1. **Conductor:** Rigit copper
2. **Insulation:** Foam PE
3. **Wrapping:** Pes Tape
4. **Screen1:** Alpes Tape
5. **Screen2:** Tinned copper
6. **Sheath:** FR PVC

Construction

Conductor	stranded bare copper wire, diameter 7 x 0.26 mm [cross section 0.35 mm ²]	0.78 mm
Insulation	Foam-Skin PP, wall thickness 0.71 mm	2.2 + 0.1 mm
Twisting	2 cores + 2 x PP-fillers twisted to the pair	4.4 mm
Core identification	1x white, 1x green	
Overall screen	1 x PET-Al-foil + tinned stranded drain wires 19 x 0,15 mm + tinned copper braid optical coverage 65%	4.6 mm 5.2 mm
Foil	1 x PET-foil under sheath	5.3 mm
Sheath	PUR Low Smoke Zero Halogen wall thickness 0.75 mm	6.8 + 0.2 mm
Sheath colour	black, RAL 9005	



CONDUCTORS

Bare Copper
Tinned Plated Copper
Nickel Plated Copper
Stainless Steel
Flexible Stranding
Thermocouple Alloys
Aluminium

INSULATING & JACKET MATERIALS

PVC
Nylon
TPE/TPR
Polyurethane
HFFR
EPDM
FOAM PE / PP
Semi-Conductive
Polyester
Polyethylene
Polypropylene
PVC/Nylon
Thermoplastic Blends

SHIELDING & BRAIDS

(Metal and Textile)
Aluminium/Polyester Tape
Tinned Plated Copper Braid
Copper Covered Steel Braid
Stainless Steel Braid
Nylon
Bare Copper Braids
Nickel Plated Copper Braid
Silver Plated Copper Braid
Fiberglass

Teknik Veriler

Technical Information

TECHNICAL INFORMATION

HARMONISED CABLES SYMBOLS

HARMONISED CABLES

Regulation designation

H:	Harmonised regulation
A:	Approved national design

Rated Voltage

01	100/100 V
03	300/300 V
05	300/500 V
07	450/750 V
11	600/1000 V

Insulation material

V	Polyvinylchloride (PVC)
V2	PVC, up to +90°C
V3	PVC for low temperatures
B	Ethylene-propylene (EPR)
E	Polyethylene
X	XLPE (cross-linked PE)
R	Rubber
S	Silicone Rubber

Sheath or braiding materials

V	Polyvinylchloride (PVC)
V2	PVC, up to +90°C
V3	PVC for low temperatures
V5	PVC, oil resistance
R	Rubber

Special construction features

H	Flat divisible cables
H2	Flat non-divisible cables
H6	Flat non-divisible cables, for elevators
H8	Spiral cables

Conductor type

U	Single-wire round conductor
R	Multiple-wire round conductor
K	Fine stranded (for cables for fixed installations)
F	Fine strands (for flexible cables)
H	Extra fine strands
D	Fine stranded for welding cables
E	Extra fine strands for welding cables

Protective earthing conductor

X	Without protective earthing conductor
G	With protective earthing conductor

N	Chloroprene rubber
Q	Polyurethane
C4	Screen of copper wire braiding
J	Glass fibre braiding
T	Textile braiding

CABLE SYMBOLS ACCORDING TO VDE STANDARDS

TELECOMMUNICATIONS CABLES AND WIRES

A	Outdoor cable
G	Mining cables
J	Installation cables and wires
L	Multicore cables
S	Switchboard cables - Signal cable
JE	Installation cables and wire for industrial electronic
Li	Stranded wire conductor

Insulation material:

P	Paper insulation
Y	Polyvinylchloride PVC
2Y	Polyethylene (PE)
3Y	PS, polystyrene
5Y	PTFE
6Y	FEP
7Y	ETFE
02Y	Foam PE, cellular polyethylene
02YS	Foam-skin PE

Structural Features:

F	Cable core assembly with filling
Yv	PVC reinforced sheath
2Yv	PE reinforced sheath
[C]	Screen of Copper wire braid
[L]	Screen of plastic-coated aluminium tape
[St]	Metal foil screen
D	Concentric layer of copper wires
[Z]	Steel wire braid
M	Lead sheath
Mz	Lead sheath with added hardener
L	Aluminium sheath, smooth
LD	Corrugated Aluminium sheath
W	Corrugated steel sheath
[L]2Y	Laminated sheath
b	Armouring
c	Protective covering of jute
E	PVC tape
[T]	Support wire for aerial cable
STIII	Star quads in local cables
STI	Star quads for larger distances
ST	Star quads for use of phantom circuits
F	Star quads for railway use
PiMF	Pair in metal foil
TiMF	Triad in metal foil
ViMF	Quad in metal foil
Bd	Laid up in bundles
Lg	Laid up in layers

CABLE SYMBOLS ACORDING TO VDE STANDARD

POWER CABLES

Conductor type:

N VDE - standard
 [N] On the basis of VDE - standard

Conductor material:

Cu Copper
 A Aluminium

Insulation material:

H Halogen Free [HFFR]
 Y Polyvinylchloride [PVC]
 2Y Polyethylene [PE]
 2X Cross-linked PE [XLPE]

Concentric conductor, screen:

C Concentric copper conductor
 CW Consentric copper conductor, in wave conal formation
 CE Consentric copper conductor over each core
 S Copper screen
 SE Copper screen and conductive layer

Armouring:

F Armour of flat wires
 R Armour of round wires
 B Steel tape armour

Sheath material:

Y PVC
 2Y PE

Protective earthing conductor:

J With protective conductor
 O Without protective earthing conductor

Conductor type:

r... Round conductor
 s... Sector-shaped conductor
 o... Oval-shaped conductor
 re Single-wire conductor
 Rm Multiple-wire conductor
 V Compact conductor

PERFORMANCE TEST OF USED ON TO HALOGEN FIRE CABLES

1- IEC 60332-1, VDE 0482-332-1-2, EN 60332-1-2, BS EN 60332-1-2 TEST FOR RESISTANCE TO VERTICAL FLAME DIFFUSION OF A SINGLE INSULATED CONDUCTOR OR CABLE 1 KW PRE-MIXED FLAME

2- IEC 60332-3-22, VDE 0482-60332-3-22, EN 60332-3-22, BS EN 60332-3-22 [CAT A] TEST FOR VERTICAL FLAME DIFFUSION ON VERTICALLY FIXED WIRE OR CABLE BUNDLES

3- IEC 61034-2, VDE 0482-1034-2, EN 61034-2, BS EN 61034-2 MEASUREMENT OF SMOKE DENSITY OF CABLES BURNT UNDER CERTAIN CONDITIONS

4- IEC 60754-1-2, VDE 0482-267-2-1, 2 and 3, EN 50267-2-1,2 and 3, BS EN 50267-2-1,2 and 3 DETERMINATION OF HALOGEN ACID GAS, MEASUREMENT OF PH AND CONDUCTIVITY

5- IEC 60331-21/23 TEST ON INSULATION INTEGRITY

6- IEC 60331-1/2, VDE 0482-200, BS EN 50200, BS 8434-1,2 SPECIFICATION FOR PERFORMANCE REQUIREMENTS FOR CABLES REQUIRED TO MAINTAIN CIRCUIT INTEGRITY UNDER FIRE CONDITIONS

J-Y{St}Y...Lg FIRE ALARM AND COMMUNICATION CABLES Colour Code According To DIN VDE 0815

2 paired installation cables are stranded as star quad

1. Pair: a-core Red b-core Black
 2. Pair: a-core White b-core Yellow

4 and multi-paired installation cables:

a-core of first pair in each layer is Red, other pairs are White
 b-core: Blue, Yellow, Green, Brown, Black in continuous repetition

In order: From outside to inside

b-wire	Pair Number										
Blue	1	6	11	16	21	26	31	36	41	46	
Yellow	2	7	12	17	22	27	32	37	42	47	
Green	3	8	13	18	23	28	33	38	43	48	
Brown	4	9	14	19	24	29	34	39	44	49	
Black	5	10	15	20	25	30	35	40	45	50	

TECHNICAL INFORMATION

GENERAL FEATURES OF CABLES WITH 450/750V NOMINAL VOLTAGE AND THERMOPLASTIC INSULATION AND SHEATH TS 9756 HD 21.1 S4 VDE 281/1

INSULATION :

Insulation should be made up of the thermoplastic material stated for each type of cable TI 1, TI 2, TI 4, and TI 5 types are suitable for maximum continuous temperature 70 °C and PVC insulated cables.

TI3 type is suitable for maximum continuous conductor temperature 90 °C and PVC insulated cables.

INSULATION FEATURES

TEST	UNIT	TYPE OF COMPOSITION				
		TI 1	TI 2	TI 3	TI 4	TI 5
Max. continuous conductor temperature	°C	70	70	90	70	70
Max. temperature for short circuit conditions	°C	160	160	160	160	160
Min. thermal stability at 200°C	minute	-	-	240	-	-

SHEATH:

Sheathing should be made up of the thermoplastic material stated for each type of cable.

-TM 1 type for PVC sheathed cables in fixed installation.

-TM 2 type for PVC sheathed twistable cables.

-TM 3 type for PVC sheathed heat resistant cables that conductor temperature does exceed 90 °C

-TM 5 type [H05VV5-F,H05VVC4V5-K] PVC sheathed and oil resistant cables.

-TM 6 type for PVC sheathed cables resistant to low temperature.

APPLICATION:

Sheath is extruded as a homogenous layer;

a-Over the core for single core cables.

b-Over the core groups and filler or (if exists) over the inner sheath.

FEATURES OF SHEATH

TEST	UNITE	TYPE OF COMPOSITION					
		TM 1	TM 2	TM 3	TM 4	TM 5	TM 6
Plunge into mineral oil	-	-	-	-	-	-	-
Temperature of oil	°C	-	-	-	-	90±2	-
Plunge time	hours	-	-	-	-	70x24	-
Min. thermal stability at 200°C	minute	-	-	240	-	-	-

ELECTRICAL PROPERTIES

TEST	UNITE	RATED VOLTAGE OF CABLES		
		300/300V	300/500V	450/750V
Voltage applied on semi-finished cables [aa]	V	2000	2000	2500
Voltage applied on cores [aa]	V			
Wall thickness up to 0,60mm	V	1500	1500	
Wall thickness above 0,60mm	V	2000	2000	2000
Long term resistance of insulation to direct current				
Temperature of water	°C	60±5	60±5	60±5
Voltage applied	V	220	220	220

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