



NAK KABLO

The Technology Surrounding The World



www.nakkablo.com

ABOUT NAK KABLO COMPANY

NAK KABLO is a third-generation cable manufacturer and exporter company, which has been manufacturing cables since 1972. Company's brand is NAK KABLO. It is very famous brand with its quality certified by ISO, TSE, HAR and TUV certifications. We are located in Denizli region of Turkey.

We manufacture cable at 10.000 m2 total operations area. Our factory is very near to Izmir Port. Delivery is also easy and very comfortable with the help of high way roads and fast transportations.

We do export our goods to more than 40 countries including Africa, Middle east, Europe and Far East Asia.

NAK KABLO has got a large product list to cooperate. They are single core cables, flexible cables, NYY, NYM, Flat Cables, XLPE insulated cables, Armored cables, Halogen free cables, low smoke flame retardant insulated cables, Solar Cables and so many options for wiring and power electrical solutions.

We manufacture cables in a very Professional way with the help of experienced staff. That's why our prices are very competitive and delivery time is followed according to your demand of duration.

Our Vision is to adopt to changing and developing technology. Conditions of cable sector is very fluently changing and moderating.

The most important daily is to submit a very competitive prices to our clients.

On the other hand, the quality is our main issue which we protect our name always positively. Except all of the subject delivery comes initial solution for our clients. We offer our clients a large and a quick option.

If we support our clients, we should always support them. That's why we hold our relations between our clients at highest level.

Dünyayı Sarı

The Technology Sur



60+

'dan fazla ülkeye ihracat

Exports to more than 60 countries

an Teknoloji

rounding The World



Green Energy Cables Yeşil Enerji Kabloları

H1Z2Z2-K	Single core flexible cable ,suited for photovoltaic an solar system , up to 1,5 Kv D.C
H1Z2Z2-K Water reisitance	Water reisitance Single core flexible cable , suited for photovoltaic an solar system , up to 1,5 Kv D.C
H1Z2Z2-K Anti-Rodent	Anti-Rodent Single core flexible cable ,suited for photovoltaic an solar system , up to 1,5 Kv D.C
H07BZ5-F	PUR - Auto charging cables

PVC Energy and Power Cables PVC Enerji ve Güç Kabloları

H05V-U / H07V-U	PVC Insulated coductor -single wire 300/500 V - 450/750 V
H07V-R	PVC insulated coductor -single wire 450/750 V
H05V-K / H07V-K	PVC insulated coductor -single wire 300/500 V - 450/750 V
H05V2-U / H07V2-U / H07V2-R	PVC insulated coductor -single wire 300/500 V - 450/750 V (90 °C)
H05V2-K / H07V2-K	PVC insulated coductor -single wire 300/500 V - 450/750 V (90 °C)
H03VH-H	PVC insulated flexible flat cable 300/300 V
H03VV-F	PVC insulated and sheathed light fine wired cable
H05VV-F	PVC insulated and sheathed fine wired cable
A05V3V3-F ARTIC CABLE	PVC insulated and sheathed fine wired cable (- 40 °C)
H03V2V2-F / H05V2V2-F	PVC insulated and sheathed fine wired cable (90 °C)
6181 Y BS 6004:2012	PVC insulated and sheathed single wire
FLAT TWIN BS 6004:2012	PVC insulated and sheathed flat twin cables
NYIFY	PVC insulated and sheathed flat cables
FLRY-B	Automotive cables
NYM (NYY)	PVC insulated and sheathed installation cables
YVV (NYY)	Power and signal cable 0,6/1 Kv , PVC insulated and sheathed
YXV (N2XV)	Power and signal cable 0,6/1 Kv , XLPE insulated , PVC sheathed

Halogen Free Energy and Power Cables Halojen olmayan Enerji ve Güç Kabloları

H05Z1-K / H07Z1-K	Halogen-free fine wired conductor , with improved properties under fire 300/500 V - 450/750 V
H05Z1-U / H07Z1-U / H07Z1-R	Halogen-free fine wired conductor , with improved properties under fire 300/500 V - 450/750 V
H05Z-K / H07Z-K	Halogen-free fine wired conductor , with improved properties under fire 300/500 V - 450/750 V (90 °C)
H07Z-U / H07Z-R	Halogen-free fine wired conductor , with improved properties under fire 450/750 V (90 °C)
H03Z1Z1-F / H05Z1Z1-F	Holagen-free insulated and sheathed flexible cable
FLAT TWIN BS 7211:2012	XLpe insulated , Halogern-fire sheathed flat twin cables
O52XZ1-F	XLpe insulated , Halogern-fire sheathed flexible cable
NH0XMH	XLpe insulated , Halogern-fire sheathed installation cable
N2XH	Holagen-Free Power and signal cable 0,6/1 Kv , with improved properties under fire



Green Energy Cables

Yeşil Enerji Kabloları



H1Z2Z2-K SOLAR CABLE

HALOGEN FREE CABLE FOR USE IN PHOTOVOLTAIC SYSTEMS



APPLICATION

These cables are designed for connecting photovoltaic system components inside and outside of buildings and equipment with high mechanical requirements and extreme weather conditions. Especially designed to connect solar panels for permanent junction boxes and inverters. Good abrasion and ozone resistant flame-retardant properties. halogen-free, oilresistant, reduced diameter, and outstanding flexibility



STANDARDS

EN 50618 62930 IEC 131

1

2

3

CONSTRUCTION

1 CONDUCTOR

Material of conductor

Fine stranded tinned copper (Class 5)

2 INSULATION

Material of insulation

Special crosslinked compound LSOH (Halogen free)

3 SHEATH

Material of sheath

Special crosslinked compound LSOH (Halogen free)

TECHNICAL PROPERTIES

Maximum permissible operating voltage AC

1,2/1,2 kV

Maximum permissible operating voltage DC

1,8/1,8 kV

AC Test voltage

6,5 kV

Minimum operating temperature

-40 °C

Maximum permissible conductor operating temperature

120 °C

Maximum permissible conductor temperature during short circuit (max. 5 sec.)

250 °C

Minimum bending radius during laying (mm)

5xCable Ø

Flame propagation test on single cable

EN 60332-1-2

TECHNICAL DATA

Nominal Cross Section	Maximum DC Resistance of the Conductor at 20 °C	Maximum Insulation Resistance at 20 °C	Maximum Insulation Resistance at 90 °C	Current Carrying Capacity		
				Single cable free in air	Single cable on surfaces	Two loaded cables adjacent on surfaces
mm ²	Ω/km	MΩ/km	MΩ/km	A	A	A
1x1,5	13,7	860	0,86	30	29	24
1x2,5	8,21	690	0,69	41	39	33
1x4	5,09	580	0,58	55	52	44
1x6	3,39	500	0,50	70	67	57
1x10	1,95	420	0,42	98	93	79
1x16	1,24	340	0,34	132	125	107
1x25	0,795	340	0,34	176	167	142
1x35	0,565	290	0,29	218	207	176
1x50	0,393	270	0,27	276	262	221
1x70	0,277	250	0,25	347	330	278
1x95	0,210	220	0,22	416	395	333
1x120	0,164	210	0,21	488	464	390
1x150	0,132	210	0,21	566	538	453
1x185	0,108	200	0,20	644	612	515
1x240	0,082	200	0,20	775	736	620

H1Z2Z2-K SOLAR CABLE

HALOGEN FREE CABLE FOR USE IN PHOTOVOLTAIC SYSTEMS



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STANDARDS

EN 50618 62930 IEC 131

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CONSTRUCTION

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Material of conductor

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2 INSULATION

Material of insulation

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TECHNICAL PROPERTIES

Maximum permissible operating voltage AC

1,2/1,2 kV

Maximum permissible operating voltage DC

1,8/1,8 kV

AC Test voltage

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1x4	5,09	580	0,58	55	52	44
1x6	3,39	500	0,50	70	67	57
1x10	1,95	420	0,42	98	93	79
1x16	1,24	340	0,34	132	125	107
1x25	0,795	340	0,34	176	167	142
1x35	0,565	290	0,29	218	207	176
1x50	0,393	270	0,27	276	262	221
1x70	0,277	250	0,25	347	330	278
1x95	0,210	220	0,22	416	395	333
1x120	0,164	210	0,21	488	464	390
1x150	0,132	210	0,21	566	538	453
1x185	0,108	200	0,20	644	612	515
1x240	0,082	200	0,20	775	736	620

H1Z2Z2-K SOLAR CABLE

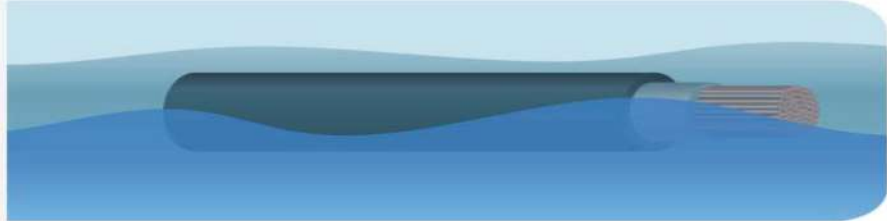


HALOGEN FREE CABLE FOR USE IN PHOTOVOLTAIC SYSTEMS



H1Z2Z2-K WATER RESISTANCE SOLAR CABLES

AD8
Submersion



Immersion Water Resistance cables

AD8 PROTECTION AGAINST WATER RESISTANT IN ELECTRIC CABLES
possibility of permanent and total water flooding.

Our AD8 solar cables have high water resistance and are suitable for use
in solar power plants built on lakes, seas and ponds.



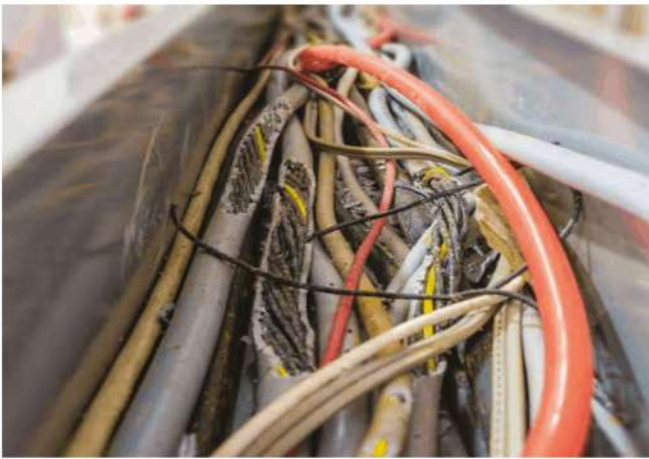
H1Z2Z2-K SOLAR CABLE



HALOGEN FREE CABLE FOR USE IN PHOTOVOLTAIC SYSTEMS



H1Z2Z2-K ANTI-RODENT ANTI-TERMIT SOLAR CABLES



This Photovoltaic solar cable has been designed for protection purposes due to one of the most important causes of danger or attack is being rodent animals called " RODENTS". Rodents or rodents can severely damage the cable by biting or gnawing the outer sheath of the cable. In order to be protected from such damages by rodents, rodent-proof cable has been designed by NAK KABLO by application of irritating to rodents. This added additive protects the cable by leaving a bad taste or a rodent offensive odor when the rodent approaches or bites the cable.



Halogen Free Charging Cable

Standard: EN 50620 - IEC 62893-3



Application

H07BZ5-F cables are intended for charging electric vehicles on the vehicle charger connector section. Light flexible and durable compounds used for their production improve the functionality or use cables are halogen-free and flame retardant (EN 60332-1-2) (IEC 60332-1-2) as well as UV , weather ,oil ,alkali and chemical resistant.

Technical data:

Thermal parameters:

fixed installations : -40 °C to 80 °C

flexible installations : -40 °C to 80 °C

Max. power conductor operating temperature : 90 °C

Short-circuit temperature : +250 °C (max 5.sec. on conductor)

Electrical parameters:

Operating voltage : 450/750 V

Test voltage : 3500 V

Mechanical parameters:

Min. bending radius :

fixed installations : 4 x ϕ

flexible connections : 6.5 x ϕ

Design :

Power cores :

Conductors : Bare copper conductors , multi - stranded class 5 (EN 60228)

Insulation : Elastomer, Type EVI-2

Control cores :

Conductors : Bare copper conductors , multi - stranded class 5 (EN 60228)

Insulation : Elastomer, Type EVI-1

Outer Sheath : PUR Type EVM-1



PVC Energy and Power Cables

PVC Enerji ve Güç Kabloları



PVC İZOLELİ, TEK DAMARLI TESİSAT KABLOLARI
PVC INSULATED, NON-SHEATHED SINGLE CORE CABLES



STANDARTLAR

STANDARDS

TS EN 50525-2-31
BS EN 50525-2-31
DIN EN 50525-2-31
IEC 60227-3

YAPISI / CONSTRUCTION

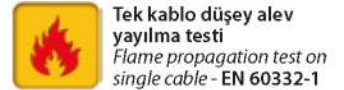
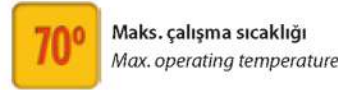
iletken / conductor



izole / insulation



TEKNİK ÖZELLİKLER / SPECIFICATIONS



UYGULAMA ALANLARI / APPLICATIONS



Kapalı ve kuru yerlerde, panolarda, sabit tesislerde, sıva altı ve sıva üstü tesisatlarda kullanılır.
Used in closed and dry areas, switch and distribution boards, fixed installations laying in conduit on and under plaster.

TEKNİK VERİLER / TECHNICAL DATA

Cu/PVC

Nominal Kesit mm ² <i>Nominal Cross Section mm²</i>	Yaklaşık Dış Çap mm <i>Overall Diameter mm approximately</i>	Yaklaşık Net Ağırlık kg/km <i>Net Weight kg/km approximately</i>	İletken Direnci Max. ohm/km(20°C) <i>Conductor DC Resistance at (20°C) max. ohm/km</i>	Akım Taşıma Kapasitesi <i>Current Carrying Capacity in</i>	
				Boruda (A) <i>Conduit (A)</i>	Havada (A) <i>Air (A)</i>
H05V-U (300/500 V) / 2491X					
0,5	2,0	9	36	-	-
0,75	2,2	12	24,5	-	16
1	2,4	13	18,1	11	19
H07V-U (450/750V) / 6491X					
1,5	2,7	21	12,1	14,5	24
2,5	3,2	34	7,41	19,5	32
4	3,7	50	4,61	26	42
6	4,2	71	3,08	34	54
10	5,4	116	1,83	46	73

PVC İZOLELİ, TESİSAT KABLolari

PVC INSULATED, SINGLE CORE CABLES

STANDARTLAR

STANDARDS

TS EN 50525-2-31
BS EN 50525-2-31
DIN EN 50525-2-31
IEC 60227-3



YAPISI / CONSTRUCTION

iletken / conductor



Örgülü bakır
Stranded copper (Class2)

izole / insulation



Polivinil klorür
Polyvinyl chloride

TEKNİK ÖZELLİKLER / SPECIFICATIONS



Min. bükülme yarı çapı
Min. bending radius
D<8 ise 4xD
8<D<12 ise 5xD
D>12 ise 6xD



Maks. kısa devre sıcaklığı
Max. short circuit temperature



Deney gerilimi
AC test voltage



Maks. çalışma sıcaklığı
Max. operating temperature



Beyan gerilimi U₀/U
Rated voltage U₀/U



Tek kablo düşey alev yayılma testi
Flame propagation test on single cable - EN 60332-1



Kurşunsuz
Lead free

UYGULAMA ALANLARI / APPLICATIONS



Kapalı ve kuru yerlerde, panolarda, sabit tesislerde, sıva altı ve sıva üstü tesisatlarda kullanılır.
Used in closed and dry areas, switch and distribution boards, fixed installations laying in conduit on and under plaster.

TEKNİK VERİLER / TECHNICAL DATA

Cu/PVC

Nominal Kesit mm ² <i>Nominal Cross Section mm²</i>	Yaklaşık Dış Çap mm <i>Overall Diameter mm approximately</i>	Yaklaşık Net Ağırlık kg/km <i>Net Weight kg/km approximately</i>	İletken Direnci Max. ohm/km(20°C) <i>Conductor DC Resistance at (20°C) max. ohm/km</i>	Akım Taşıma Kapasitesi <i>Current Carrying Capacity in</i>	
				Boruda (A) <i>Conduit (A)</i>	Havada (A) <i>Air (A)</i>
HO7V-R (450/750V) / 6491X					
1,5	3,0	21	12,1	14,5	24
2,5	3,6	32	7,41	19,5	32
4	4,2	48	4,61	26	42
6	4,8	67	3,08	34	54
10	5,9	110	1,83	46	73
16	6,9	181	1,15	61	98
25	8,2	280	0,727	80	129
35	9,3	382	0,524	99	158
50	10,8	542	0,387	119	198
70	12,4	745	0,268	151	245
95	14,5	1010	0,193	182	292
120	15,9	1260	0,153	210	344
150	17,7	1575	0,124	240	391
185	19,8	1945	0,0991	273	448
240	22,8	2520	0,0754	320	528
300	25,2	2950	0,0601	-	-
400	31,2	3740	0,0470	-	-
500	35,6	4820	0,0366	-	-
630	37,6	6145	0,0283	-	-

PVC İZOLELİ, BÜKÜLGEN, TEK DAMARLI TESİSAT KABLOLARI
PVC INSULATED, SINGLE CORE CABLES WITH FLEXIBLE COPPER CONDUCTOR



STANDARTLAR
STANDARDS

TS EN 50525-2-31
BS EN 50525-2-31
DIN EN 50525-2-31
IEC 60227-3

YAPISI / CONSTRUCTION

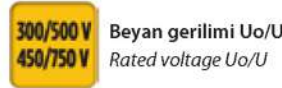
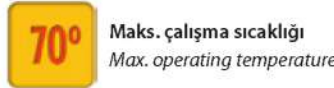
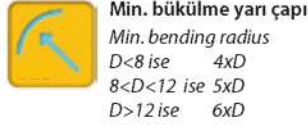
iletken / conductor



izole / insulation



TEKNİK ÖZELLİKLER / SPECIFICATIONS



UYGULAMA ALANLARI / APPLICATIONS



Hareketli tesislerde ve cihazlarda, kapalı ve kuru yerlerde, panolarda kullanılır.
Used in closed and dry areas, switch and distribution boards, and also used for moving installations and equipments.

TEKNİK VERİLER / TECHNICAL DATA

Cu/PVC

Nominal Kesit mm ² <i>Nominal Cross Section mm²</i>	Yaklaşık Dış Çap mm <i>Overall Diameter mm approximately</i>	Yaklaşık Net Ağırlık kg/km <i>Net Weight kg/km approximately</i>	İletken Direnci Max. ohm/km(20°C) <i>Conductor DC Resistance at (20°C) max. ohm/km</i>	Akım Taşıma Kapasitesi <i>Current Carrying Capacity in</i>	
				Boruda (A) <i>Conduit (A)</i>	Havada (A) <i>Air (A)</i>
H05V-K (300/500 V) / 2491X					
0,5	2,0	9	39	-	-
0,75	2,2	12	26	-	16
1	2,4	13	19,5	11	20
H07V-K (450/750 V) / 6491X					
1,5	2,8	19	13,3	14,5	24
2,5	3,4	30	7,98	19,5	32
4	3,9	44	4,95	26	42
6	4,4	63	3,30	34	54
10	6,1	112	1,91	46	73
16	7,4	169	1,21	61	98
25	9,0	251	0,780	80	129
35	10,9	369	0,554	99	158
50	12,7	528	0,386	119	198
70	14,7	730	0,272	151	245
95	16,9	969	0,206	182	292
120	18,8	1212	0,161	210	344
150	21	1521	0,129	240	391
185	23,3	1857	0,106	273	448
240	26,6	2443	0,0801	320	528
300	28,8	2818	0,0641	-	689
400	32,2	3635	0,0486	-	789

H05V2-U / H07V2-U / H07V2-R

NAK
KABLO

PVC İZOLELİ, ISIYA DAYANIKLI, TEK DAMARLI KABLolar
PVC INSULATED, HEAT RESISTING, SINGLE CORE CABLES

STANDARTLAR
STANDARDS
EN 50525-2-31



YAPISI / CONSTRUCTION

iletken / conductor

- 1 Som veya örgülü bakır
Solid or stranded copper
(Class 1 or Class 2)

izole / insulation

- 2 Yüksek sıcaklığa dayanıklı polivinil klorür
High temperature resistant polyvinyl chloride

TEKNİK ÖZELLİKLER / SPECIFICATIONS



Min. bükülme yarı çapı
Min. bending radius
D<8 ise 4xD
8<D<12 ise 5xD
D>12 ise 6xD



Beyan gerilimi U₀/U
Rated voltage U₀/U



Maks. çalışma sıcaklığı
Max. operating temperature



Deney gerilimi
AC test voltage



Maks. kısa devre sıcaklığı
Max. short circuit temperature



Tek kablo düşey alev yayılma testi
Flame propagation test on single cable - EN 60332-1

UYGULAMA ALANLARI / APPLICATIONS



Isıya dayanıklı, iç tesisatlarda ve panolarda kullanılır.
Heat resistant cables for internal wiring and switch, distribution boards.

TEKNİK VERİLER / TECHNICAL DATA

Cu/HR-PVC

Nominal Kesit mm² <i>Nominal Cross Section mm²</i>	Yaklaşık Dış Çap mm <i>Overall Diameter mm approximately</i>	Yaklaşık Net Ağırlık kg/km <i>Net Weight kg/km approximately</i>	İletken Direnci Max. ohm/km(20°C) <i>Conductor DC Resistance at (20°C) max. ohm/km</i>	Akım Taşıma Kapasitesi <i>Current Carrying Capacity in</i>	
				Boruda (A) <i>Conduit (A)</i>	Havada (A) <i>Air (A)</i>
H05V2-U (300/500 V)					
0,50	2,0	9	36,0	-	12
0,75	2,2	12	24,5	-	15
1	2,4	13	18,1	-	19
H07V2-U/H07V2-R (450/750 V)					
1,5	2,7	21	12,1	14,5	24
2,5	3,2	34	7,41	19,5	32
4	3,7	50	4,61	26	42
6	4,2	71	3,08	34	54
10	5,4	116	1,83	46	73
16	6,9	181	1,15	61	98
25	8,2	280	0,727	80	129
35	9,3	382	0,524	99	158
50	10,8	542	0,387	119	198
70	12,4	745	0,268	151	245
95	14,5	1010	0,193	182	292
120	15,9	1260	0,153	210	344
150	17,7	1575	0,124	240	391
185	19,8	1945	0,0991	273	448
240	22,8	2520	0,0754	320	528

PVC İZOLELİ, ISIYADAYANIKLI, ESNEK, TEK DAMARLI KABLolar
PVC INSULATED, HEATRESISTING, FLEXIBLE, SINGLE CORE CABLES



STANDARTLAR
STANDARDS
EN 50525-2-31

YAPISI / CONSTRUCTION

iletken / conductor



izole / insulation



TEKNİK ÖZELLİKLER / SPECIFICATIONS



Min. bükülme yarı çapı
Min. bending radius
D<8 ise 4xD
8<D<12 ise 5xD
D>12 ise 6xD



300/500 V
450/750 V
Beyan gerilimi U₀/U
Rated voltage U₀/U



90°
Maks. çalışma sıcaklığı
Max. operating temperature



2kV/2.5kV
Deney gerilimi
AC test voltage



160°
Maks. kısa devre sıcaklığı
Max. short circuit temperature



Tek kablo düşey alev yayılma testi
Flame propagation test on single cable - EN 60332-1

UYGULAMA ALANLARI / APPLICATIONS



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Heat resistant cables for internal wiring and switch, distribution boards.

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				Boruda (A) <i>Conduit (A)</i>	Havada (A) <i>Air (A)</i>
H05V2-K (300/500 V)					
0,50	2,0	9	39,0	-	12
0,75	2,2	12	26,0	-	15
1	2,4	13	19,5	-	19
H07V2-K (450/750 V)					
1,5	2,8	19	13,3	14,5	24
2,5	3,4	30	7,98	19,5	32
4	3,9	44	4,95	26	42
6	4,4	63	3,30	34	54
10	6,1	112	1,91	46	73
16	7,4	169	1,21	61	98
25	9	251	0,780	80	129
35	10,9	369	0,554	99	158
50	12,7	528	0,386	119	198
70	14,7	730	0,272	151	245
95	16,9	969	0,206	182	292
120	18,8	1212	0,161	210	344
150	21,0	1521	0,129	240	391
185	23,3	1857	0,106	273	448
240	26,6	2443	0,0801	320	528
300	27,8	2781	0,0601	-	-

YASSI KILIFSIZ KORDON
FLAT, FLEXIBLE TINSEL CORDSSTANDARTLAR
STANDARDS
TS EN 50525-2-11

YAPISI / CONSTRUCTION

iletken / conductor



izole / insulation



TEKNİK ÖZELLİKLER / SPECIFICATIONS

Min. bükülme yarı çapı
Min. bending radiusBeyan gerilimi U₀/U
Rated voltage U₀/UMaks. çalışma sıcaklığı
Max. operating temperatureDeney gerilimi
AC test voltageMaks. kısa devre sıcaklığı
Max. short circuit temperatureTek kablo düşey alev yayılma testi
Flame propagation test on single cable - EN 60332-1

UYGULAMA ALANLARI / APPLICATIONS

Mekanik zorlamaların olmadığı rutubetli yerlerde sıva altı ve sıva üstü tesisatlar.
Used in dry humid areas that there are no mechanical compulsion, under and on the plaster.Kurşunsuz
Lead free

TEKNİK VERİLER / TECHNICAL DATA

Cu/PVC

Nominal Kesit mm ² Nominal Cross Section mm ²	Yaklaşık Dış Çap mm Overall Diameter mm approximately	Yaklaşık Net Ağırlık kg/km Net Weight kg/km approximately	İletken Direnci Max. ohm/km(20°C) Conductor DC Resistance at (20°C) max. ohm/km	Akım Taşıma Kapasitesi Current Carrying Capacity in Havada (A) Air (A)
H03VH-H (300/300 V)				
2x0,50	2,50x5,55	24,4	39,0	3
2x0,75	2,70x5,60	28,0	26,0	6
2x1	2,90x6,20	33,6	19,50	10
2x1,5	3,50x7,40	49,2	13,30	16

PVC İZOLELİ, ÇOK DAMARLI, BÜKÜLGEN İLETKENLİ KABLOLAR
PVC INSULATED, MULTI-CORE CABLES WITH FLEXIBLE CONDUCTOR



STANDARTLAR

STANDARDS

TS EN 50525-2-11
BS EN 50525-2-11
DIN EN 50525-2-11
IEC 60227,5

YAPISI / CONSTRUCTION

iletken / conductor

- 1 İnce çok telli bakır
Fine-stranded copper
(Class 5)

izole / insulation

- 2 Polivinil klorür
Polyvinyl chloride

dış kılıf / outer sheath

- 3 Polivinil klorür
Polyvinyl chloride

TEKNİK ÖZELLİKLER / SPECIFICATIONS



Min. bükülme yarı çapı
Min. bending radius
 $D \leq 12$ ise $5D$ - $D > 12$ ise $6D$



Beyan gerilimi U_0/U
Rated voltage U_0/U



Maks. çalışma sıcaklığı
Max. operating temperature



Deney gerilimi
AC test voltage



Maks. kısa devre sıcaklığı
Max. short circuit temperature



Tek kablo düşey alev yayılma testi
Flame propagation test on single cable - EN 60332-1

UYGULAMA ALANLARI / APPLICATIONS



Az mekanik zorlamalı ve rutubetli yerlerde kullanılan ev gereçlerinde kullanılır.
Used in dry and humid areas that there are not much mechanical compulsion in which, generally used in household equipments.



Kurşunsuz
Lead free

TEKNİK VERİLER / TECHNICAL DATA

Cu/PVC/PVC

Nominal Kesit mm ² Nominal Cross Section mm ²	Yaklaşık Dış Çap mm Overall Diameter mm approximately	Yaklaşık Net Ağırlık kg/km Net Weight kg/km approximately	İletken Direnci Max. ohm/km(20°C) Conductor DC Resistance at (20°C) max. ohm/km	Akım Taşıma Kapasitesi Current Carrying Capacity in Havada (A) Air (A)
H03VV-F (300/300 V)				
2x0,50	5,0	36	39,0	3
2x0,75	5,5	46	26,0	6
3x0,50	5,3	43	39,0	3
3x0,75	5,8	54	26,0	6
4x0,50	5,8	53	39,0	3
4x0,75	6,4	68	26,0	6

PVC İZOLELİ, ÇOK DAMARLI, BÜKÜLGEN İLETKENLİ KABLolar
PVC INSULATED, MULTI-CORE CABLES WITH FLEXIBLE CONDUCTOR



STANDARTLAR
STANDARDS

TS EN 50525-2-11
BS EN 50525-2-11
DIN EN 50525-2-11
IEC 60227.5

YAPISI / CONSTRUCTION

iletken / conductor

- 1 İnce çok telli bakır
Fine-stranded copper
(Class 5)

izole / insulation

- 2 Polivinil klorür
Polyvinyl chloride

dış kılıf / outer sheath

- 3 Polivinil klorür
Polyvinyl chloride

TEKNİK ÖZELLİKLER / SPECIFICATIONS



Min. bükülme yarı çapı
Min. bending radius
 $D \leq 12$ ise $5D$ - $D > 12$ ise $6D$



Beyan gerilimi U_0/U
Rated voltage U_0/U



Maks. çalışma sıcaklığı
Max. operating temperature



Deney gerilimi
AC test voltage



Maks. kısa devre sıcaklığı
Max. short circuit
temperature



Tek kablo düşey alev
yayılma testi
Flame propagation test on
single cable - EN 60332-1

UYGULAMA ALANLARI / APPLICATIONS



Az mekanik zorlamalı ve rutubetli yerlerde kullanılan ev gereçlerinde kullanılır.
Used in dry and humid areas that there are not much mechanical compulsion in which,
generally used in household equipments.



Kurşunsuz
Lead free

TEKNİK VERİLER / TECHNICAL DATA

Cu/PVC/PVC

Nominal Kesit mm ² Nominal Cross Section mm ²	Yaklaşık Dış Çap mm Overall Diameter mm approximately	Yaklaşık Net Ağırlık kg/km Net Weight kg/km approximately	İletken Direnci Max. ohm/km(20°C) Conductor DC Resistance at (20°C) max. ohm/km	Akım Taşıma Kapasitesi Current Carrying Capacity in Havada (A) Air (A)
H05VV-F (300/500 V) / 318Y				
2x0,75	5,9	55	26,0	6
2x1	6,3	64	19,5	10
2x1,5	7,2	87	13,3	16
2x2,5	8,9	133	7,98	25
2x4	10,9	184	4,95	32
3x0,75	6,3	65	26,0	6
3x1	6,7	75	19,5	10
3x1,5	7,8	106	13,3	16
3x2,5	9,6	163	7,98	25
3x4	11,0	226	4,95	32
4x0,75	6,8	77	26,0	6
4x1	7,4	93	19,5	10
4x1,5	8,7	131	13,3	16
4x2,5	10,5	197	7,98	25
4x4	12,0	275	4,95	32
5x0,75	7,8	97	26,0	6
5x1	8,3	113	19,5	10
5x1,5	9,9	164	13,3	16
5x2,5	12,8	248	7,98	25
5x4	13,6	347	4,95	32

A05V3V3-F ARTIC GRADE

NAK
KABLO

SOĞUĞA DAYANIKLI ESNEK KABLOLAR
FLEXIBLE, ARCTIC GRADE CABLES FOR COLD ENVIRONMENT

STANDARTLAR
STANDARDS
BS 6004:2012



YAPISI / CONSTRUCTION

iletken / conductor

- 1  İnce çok telli bakır
Fine stranded copper
(Class 5)

izole / insulation

- 2  Soğuğa dayanıklı polivinil klorür
Cold resistant polyvinyl chloride

dış kılıf / outer sheath

- 3  Soğuğa dayanıklı polivinil klorür
Cold resistant polyvinyl chloride

TEKNİK ÖZELLİKLER / SPECIFICATIONS



Min. bükülme yarı çapı
Min. bending radius
 $D \leq 12$ ise $5D$ - $D > 12$ ise $6D$



Beyan gerilimi U_0/U
Rated voltage U_0/U



Maks. çalışma sıcaklığı
Max. operating temperature



Deney gerilimi
AC test voltage



Maks. kısa devre sıcaklığı
Max. short circuit temperature



Tek kablo düşey alev yayılma testi
Flame propagation test on single cable - EN 60332-1

UYGULAMA ALANLARI / APPLICATIONS



Düşük sıcaklıklarda ve az mekanik zorlamalı alçak gerilim ev aletlerinde kullanılır.
Low voltage household appliances under less mechanical compulsion used in low temperature applications.

TEKNİK VERİLER / TECHNICAL DATA

Cu/CR-PVC/CR-PVC

Nominal Kesit mm ² Nominal Cross Section mm ²	Yaklaşık Dış Çap mm Overall Diameter mm approximately	Yaklaşık Net Ağırlık kg/km Net Weight kg/km approximately	İletken Direnci Max. ohm/km(20°C) Conductor DC Resistance at (20°C) max. ohm/km	Akım Taşıma Kapasitesi Current Carrying Capacity in Havada (A) Air (A)
A05V3V3-F ARCTIC (300/500 V) / 318A				
2x0,75	6,3	57	26,0	6
2x1	6,6	65	19,5	10
2x1,50	7,8	91	13,3	16
2x2,5	9,1	130	7,98	25
2x4	10,6	184	4,95	32
3x0,75	6,7	68	26,0	6
3x1	7,0	78	19,5	10
3x1,5	8,1	106	13,3	16
3x2,5	9,9	163	7,98	25
3x4	11,3	227	4,95	32
4x0,75	7,3	82	26,0	6
4x1	7,9	100	19,5	10
4x1,5	9,0	134	13,3	16
4x2,5	10,8	200	7,98	25
4x4	12,3	280	4,95	32
5x0,75	8,1	102	26,0	6
5x1	8,6	120	19,5	10
5x1,5	10,0	166	13,3	16
5x2,5	12,0	249	7,98	25
5x4	13,9	355	4,95	32

ESNEK, ISIYA DAYANIKLI, ÇOK DAMARLI KABLOLAR
FLEXIBLE, HEAT RESISTING, MULTI-CORE CABLES



STANDARTLAR STANDARDS

TS EN 50525-2-11
BS EN 50525-2-11
DIN EN 50525-2-11
EN 50525-2-11

YAPISI / CONSTRUCTION

iletken / conductor

- 1 İnce çok telli bakır
Fine-stranded copper
(Class 5)

izole / insulation

- 2 HR-PVC Yüksek sıcaklığa dayanıklı polivinil klorür
High temperature resistant polyvinyl chloride

dış kılıf / outer sheath

- 3 HR-PVC Yüksek sıcaklığa dayanıklı polivinil klorür
High temperature resistant polyvinyl chloride

TEKNİK ÖZELLİKLER / SPECIFICATIONS



Min. bükülme yarı çapı
Min. bending radius
 $D \leq 12$ ise $5xD$
 $D > 12$ ise $6xD$



300/300 V
300/500 V
Beyan gerilimi U_0/U
Rated voltage U_0/U



90°
105°
Maks. çalışma sıcaklığı
Max. operating temperature



2 kV
Deney gerilimi
AC test voltage



150°
Maks. kısa devre sıcaklığı
Max. short circuit temperature



Tek kablo düşey alev yayılma testi
Flame propagation test on single cable - EN 60332-1

UYGULAMA ALANLARI / APPLICATIONS



Yüksek sıcaklıklarda ve az mekanik zorlamalı alçak gerilim ev aletlerinde kullanılır.
Low voltage household appliances under less mechanical compulsion in high temperature environments.

TEKNİK VERİLER / TECHNICAL DATA

Cu/HR-PVC/HR-PVC

Nominal Kesit mm ² Nominal Cross Section mm ²	Yaklaşık Dış Çap mm Overall Diameter mm approximately	Yaklaşık Net Ağırlık kg/km Net Weight kg/km approximately	İletken Direnci Max. ohm/km(20°C) Conductor DC Resistance at (20°C) max. ohm/km	Akım Taşıma Kapasitesi Current Carrying Capacity in Havada (A) Air (A)
H03V2V2-F (300/300 V) / 209Y				
2x0,50	5,0	37	39,0	3
2x0,75	5,5	46	26,0	6
3x0,50	5,3	43	39,0	3
3x0,75	6,3	61	26,0	6
4x0,50	5,8	53	39,0	3
4x0,75	6,4	68	26,0	6
H05V2V2-F (300/500V) / 309Y				
2x0,75	6,3	57	26,0	6
2x1	6,6	65	19,5	10
2x1,5	7,4	84	13,3	16
2x2,5	9,1	130	7,98	25
2x4	10,4	179	4,95	32
3x0,75	6,7	68	26,0	6
3x1	7,0	78	19,5	10
3x1,5	8,1	106	13,3	16
3x2,5	9,9	163	7,98	25
3x4	11,3	227	4,95	32
4x0,75	7,3	82	26,0	6
4x1	7,9	100	19,5	10
4x1,5	9,0	134	13,3	16
4x2,5	10,8	201	7,98	25
4x4	12,3	280	4,95	32
5x0,75	8,1	102	26,0	6
5x1	8,6	120	19,5	10
5x1,5	10,0	166	13,3	16
5x2,5	12,0	249	7,98	25
5x4	13,9	355	4,95	32

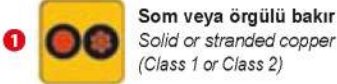
ÇİFT PVC İZOLELİ, TEK DAMARLI KABLolar PVC DOUBLE INSULATED CABLES



STANDARTLAR
STANDARDS
BS 6004:2012

YAPISI / CONSTRUCTION

iletken / conductor



Dış kılıf / Outer Sheath



izole / insulation



TEKNİK ÖZELLİKLER / SPECIFICATIONS



Min. bükülme yarı çapı
Min. bending radius



300/500 V Beyan gerilimi U₀/U
Rated voltage U₀/U



70° Maks. çalışma sıcaklığı
Max. operating temperature



2 kV Deney gerilimi
AC test voltage



160° Maks. kısa devre sıcaklığı
Max. short circuit temperature



Tek kablo düşey alev yayılma testi
Flame propagation test on single cable - EN 60332-1

UYGULAMA ALANLARI / APPLICATIONS



Mekanik zorlamaların olmadığı rutubetli yerlerde sıva altı ve sıva üstü tesisatlar.
Used in dry humid areas that there are no mechanical compulsion, under and on the plaster.



Kurşunsuz
Lead free

TEKNİK VERİLER / TECHNICAL DATA

Cu/PVC/PVC

Nominal Kesit mm ² Nominal Cross Section mm ²	Yaklaşık Dış Çap mm Overall Diameter mm approximately	Yaklaşık Net Ağırlık kg/km Net Weight kg/km approximately	İletken Direnci Max. ohm/km(20°C) Conductor DC Resistance at (20°C) max. ohm/km	Akım Taşıma Kapasitesi Current Carrying Capacity in Havada (A) Air (A)
1	3,9	26	18,1	13,5
1,5	4,4	33	12,1	17,5
2,5	5,0	46	7,41	24
4	6,0	69	4,61	32
6	6,5	89	3,08	41
10	7,8	139	1,83	57
16	9,1	207	1,15	76
25	11,0	312	0,727	101
35	12,1	410	0,524	125
50	13,8	557	0,387	151
70	15,6	761	0,268	192
95	18,2	1060	0,193	232
120	19,9	1307	0,153	269
150	21,8	1599	0,124	300
185	23,8	1977	0,0991	341
240	27,8	2608	0,0754	400

6241 Y 6242 Y 6243 Y (BS 6004:2012)

NAK
K A B L O

PVC İZOLELİ, PVC KILIFLI YASSI KABLOLAR
PVC INSULATED PVC SHEATHED FLAT TWIN CABLES

STANDARTLAR
STANDARDS
BS 6004:2012



YAPISI / CONSTRUCTION

iletken / conductor

- 1 Som veya örgülü bakır
Solid or stranded copper
(Class 1 or Class 2)

Dış kılıf / Outer Sheath

- 3 PVC Polivinil klorür
Polyvinyl chloride

izole / insulation

- 2 PVC Polivinil klorür
Polyvinyl chloride

TEKNİK ÖZELLİKLER / SPECIFICATIONS



Min. bükülme yarı çapı
Min. bending radius



Beyan gerilimi U₀/U
Rated voltage U₀/U



Maks. çalışma sıcaklığı
Max. operating temperature



Deney gerilimi
AC test voltage



Maks. kısa devre sıcaklığı
Max. short circuit temperature



Tek kablo düşey alev yayılma testi
Flame propagation test on single cable - EN 60332-1

UYGULAMA ALANLARI / APPLICATIONS



Mekanik zorlamaların olmadığı rutubetli yerlerde sıva altı ve sıva üstü tesisatlar.
Used in dry humid areas that there are no mechanical compulsion, under and on the plaster.



Kurşunsuz
Lead free

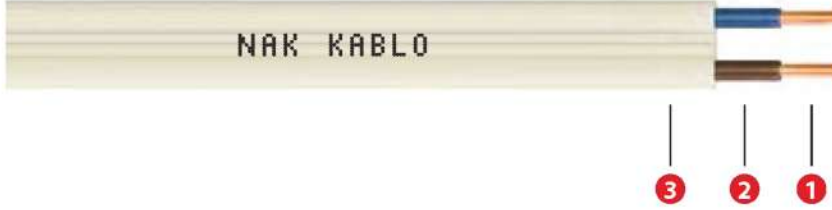
TEKNİK VERİLER / TECHNICAL DATA

Cu/PVC/PVC

Nominal Kesit mm ² Nominal Cross Section mm ²	Yaklaşık Dış Çap mm Overall Diameter Min Dia. / Max Dia.	Yaklaşık Net Ağırlık kg/km Net Weight kg/km approximately	İletken Direnci Max. ohm/km(20°C) Conductor DC Resistance at (20°C) max. ohm/km	Akım Taşıma Kapasitesi Current Carrying Capacity in Havada (A) Air (A)
6241 Y - 6242 Y - 6243 Y (300/500 V)				
1x1,5+1	4,4x5,4 - 5,3x6,6	48	12,1/18,1	16
2x1+1	3,9x7,2 - 4,8x8,7	67	18,10	13
2x1,5+1	4,4x8,1 - 5,3x9,7	83	12,1/18,1	16
2x2,5+1,5	5,1x9,6 - 6,2x11,7	120	7,41/12,1	21
2x4+1,5	5,7x10,8 - 6,8x13,1	172	4,61/12,1	27
2x6+2,5	6,4x12,4 - 7,8x15,0	235	3,08/7,41	34
2x10+4	7,9x15,6 - 9,5x18,9	373	1,83/4,61	45
2x16+6	8,9x18,1 - 10,8x21,9	529	1,15/3,08	57
3x1+1	3,9x9,4 - 4,8x11,4	91	18,1	13
3x1,5+1	4,4x10,7 - 5,3x12,9	117	12,1/18,1	16
3x2,5+1,5	5,1x12,6 - 6,2x15,3	172	7,41/12,1	21

PVC İZOLELİ, PVC KILIFLI YASSI KABLOLAR
PVC INSULATED PVC SHEATHED FLAT TWIN CABLES

STANDARTLAR
STANDARDS
VDE 0250



YAPISI / CONSTRUCTION

iletken / conductor



Dış kılıf / Outer Sheath



izole / insulation



TEKNİK ÖZELLİKLER / SPECIFICATIONS



Min. bükülme yarı çapı
Min. bending radius



300/500 V **Beyan gerilimi U₀/U**
Rated voltage U₀/U



70° **Maks. çalışma sıcaklığı**
Max. operating temperature



2 kV **Deney gerilimi**
AC test voltage



160° **Maks. kısa devre sıcaklığı**
Max. short circuit temperature



Tek kablo düşey alev yayılma testi
Flame propagation test on single cable - EN 60332-1

UYGULAMA ALANLARI / APPLICATIONS



Mekanik zorlamaların olmadığı rutubetli yerlerde sıva altı ve sıva üstü tesisatlar.
Used in dry humid areas that there are no mechanical compulsion, under and on the plaster.



Kurşunsuz
Lead free

TEKNİK VERİLER / TECHNICAL DATA

Cu/PVC/PVC

Nominal Kesit mm ² Nominal Cross Section mm ²	Yaklaşık Dış Çap mm Overall Diameter Min Dia. / Max Dia.	Yaklaşık Net Ağırlık kg/km Net Weight kg/km approximately	İletken Direnci Max. ohm/km(20°C) Conductor DC Resistance at (20°C) max. ohm/km	Akım Taşıma Kapasitesi Current Carrying Capacity in Havada (A) Air (A)
NYIFY (300/500 V)				
2x1	3,6x9,2	51	18,1	13
2x1,5	3,9x10,5	79	12,10	16
2x2,5	4,7x12,0	95	7,41	21
2x4	5,3x14	144	4,61	27
3x1	3,6x14,8	76	18,1	13
3x1,5	3,85x17,5	109	12,1	16
3x2,5	4,75x19,5	141	7,41	21
3x4	5,30x23,0	197	4,61	27

SPECIAL PVCINSULATED AUTOMOTIVE CABLES



STANDARTLAR
STANDARDS
DIN 72551

CONSTRUCTION

Conductor

1



Fine-stranded
copper(Class 5)

Insulation



Polyvinyl chloride

SPECIFICATIONS



Lead free



Min. Operating temp.



AC test voltage



Max operating temp.



Rated voltage Uo/U



Flame propagation test on
single cable - EN 60332-1



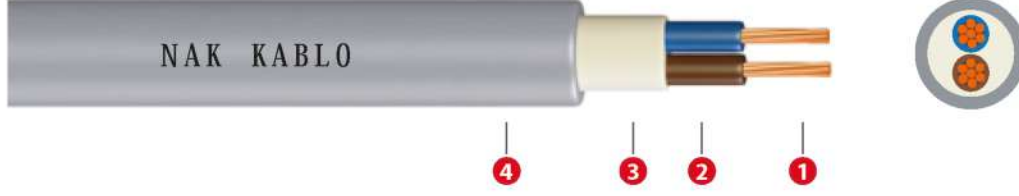
Automotive Internal Wiring

TECHNICAL DATA

Cu/PVC

Nominal CrossSection mm²	Overall Diameter Of Conductor	Net Weight kg/km approximately	Conductor DC Resistance at (20°C)max.ohm/km		
				Conduit (A)	Air (A)
FLRY					
0,35	0,90	4,5	52,0	19,5	32
0,50	1,10	6,6	37,1	34	54
0,75	1,30	9,0	24,7	46	73
1	1,50	11,0	18,5	61	98
1,5	1,80	16,0	12,7	80	129
2,5	2,20	26,0	7,6	99	158
4	2,80	42,0	4,7	119	198
6	3,40	61,0	3,1	151	245

PVC İZOLELİ, ÇOK DAMARLI TESİSAT KABLOLARI
PVC INSULATED, MULTI-CORE INSTALLATION CABLES



STANDARTLAR
STANDARDS

TS 9759
VDE 0250
IEC 60227

YAPISI / CONSTRUCTION

iletken / conductor

- 1 Som veya örgülü bakır
Solid or stranded copper
(Class 1 or Class 2)

dolgu

- 3 Polivinil klorür
Polyvinyl chloride

izole / insulation

- 2 Polivinil klorür
Polyvinyl chloride

dış kılıf / outer sheath

- 4 Polivinil klorür
Polyvinyl chloride

TEKNİK ÖZELLİKLER / SPECIFICATIONS



Min. bükülme yarı çapı
Min. bending radius



Beyan gerilimi U₀/U
Rated voltage U₀/U



Maks. çalışma sıcaklığı
Max. operating temperature



Deney gerilimi
AC test voltage



Maks. kısa devre sıcaklığı
Max. short circuit temperature



Tek kablo düşey alev yayılma testi
Flame propagation test on single cable - EN 60332-1

UYGULAMA ALANLARI / APPLICATIONS



Mekanik zorlamaların olmadığı rutubetli yerlerde sıva altı ve sıva üstü tesisatlar.
Used in dry humid areas that there are no mechanical compulsion, under and on the plaster.



Kurşunsuz
Lead free

TEKNİK VERİLER / TECHNICAL DATA

Cu/PVC/PVC/PVC

Nominal Kesit mm ² Nominal Cross Section mm ²	Yaklaşık Dış Çap mm Overall Diameter mm approximately	Yaklaşık Net Ağırlık kg/km Net Weight kg/km approximately	İletken Direnci Max. ohm/km(20°C) Conductor DC Resistance at (20°C) max. ohm/km	Akım Taşıma Kapasitesi Current Carrying Capacity in Havada (A) Air (A)
(NU, H05VV) NYM / H05VV-VV-R (300/500 V)				
2x1,5	8,8	121	12,1	22
2x2,5	10,0	163	7,41	30
2x4	10,9	212	4,61	40
2x6	11,8	270	3,08	51
2x10	15,7	498	1,83	70
3x1,5	8,9	134	12,1	16,5
3x2,5	10,5	194	7,41	23
3x4	11,4	254	4,61	30
3x6	12,9	343	3,08	38
3x10	16,4	605	1,83	52
4x1,5	9,9	168	12,1	16,5
4x2,5	11,3	233	7,41	23
4x4	10,3	333	4,61	30
4x6	14,2	430	3,08	38
4x10	18,2	770	1,83	52
5x1,5	10,9	200	12,1	16,5
5x2,5	12,5	280	7,41	23
5x4	14,1	395	4,61	30
5x6	15,5	520	3,08	38
5x10	20,5	860	1,83	52

YVV-R (NYY) YVV-U (NYY)

NAK
KABLO

PVC İZOLELİ, ALÇAK GERİLİM GÜÇ KABLOLARI
PVC INSULATED, LOW VOLTAGE POWER CABLES



STANDARTLAR
STANDARDS
TS IEC 60502-1
IEC 60502-1
DIN VDE 0276-603

YAPISI / CONSTRUCTION

iletken / conductor

- 1 Som veya örgülü bakır
Solid or stranded copper
(Class 1 or Class 2)

dolgu

- 3 PVC Polivinil klorür
Polyvinyl chloride

izole / insulation

- 2 PVC Polivinil klorür
Polyvinyl chloride

dış kılıf / outer sheath

- 4 PVC Polivinil klorür
Polyvinyl chloride

TEKNİK ÖZELLİKLER / SPECIFICATIONS

- Min. bükülme yarı çapı
Min. bending radius
12 x D

- 0,6/1 kV Beyan gerilimi U₀/U
Rated voltage U₀/U

- 70° Maks. çalışma sıcaklığı
Max. operating temperature

- 3,5 kV Deney gerilimi
AC test voltage

- 160° Maks. kısa devre sıcaklığı
Max. short circuit temperature

- Tek kablo düşey alev yayılma testi
Flame propagation test on single cable - EN 60332-1

UYGULAMA ALANLARI / APPLICATIONS



Fazla zorlamaların olmadığı toprak altında ve kablo kanallarında kullanılır.
Used in underground which there not much outer factors and inside cable conduits.

- Pb Kurşunsuz
Lead free

TEKNİK VERİLER / TECHNICAL DATA

Cu/PVC/PVC/PVC

Nominal Kesit mm² <i>Nominal Cross Section mm²</i>	Yaklaşık Dış Çap mm <i>Overall Diameter mm approximately</i>	Yaklaşık Net Ağırlık kg/km <i>Net Weight kg/km approximately</i>	İletken Direnci Max. ohm/km(20°C) <i>Conductor DC Resistance at (20°C) max. ohm/km</i>	Akım Taşıma Kapasitesi <i>Current Carrying Capacity in</i>	
				Toprakta (A) <i>Ground (A)</i>	Havada (A) <i>Air (A)</i>
YVV-U (NYY) , YVV-R (NYY) (0,6/1 kV)					
2x1,5	10,54	161	12,1	32	22
2x2,5	11,32	196	7,41	42	30
2x4	13,02	272	4,61	54	40
2x6	14,02	334	3,08	68	51
2x10	16,30	478	1,83	90	70
2x16	18,80	675	1,15	116	94
3x1,5	10,80	177	12,1	27	19,5
3x2,5	11,90	229	7,41	36	25
3x4	13,70	322	4,61	47	34
3x6	14,80	403	3,08	59	43
3x10	17,50	596	1,83	79	59
3x16	19,50	813	1,15	102	79
4x1,5	12,00	222	12,1	27	18,5
4x2,5	13,00	280	7,41	36	25
4x4	15,00	398	4,61	47	34
4x6	16,20	500	3,08	59	43
4x10	19,00	734	1,83	79	60
4x16	21,50	1026	1,15	102	80
5x1,5	12,10	231	12,1	26	18,6
5x2,5	13,10	295	7,41	34	25

XLPE İZOLELİ, TEK DAMARLI, BAKIR İLETKENLİ KABLolar

XLPE INSULATED, SINGLE CORE CABLES WITH COPPER CONDUCTOR



STANDARTLAR
STANDARDS
TS IEC 60502-1
IEC 60502-1
DIN VDE 0276-603
IS 1516.1

YAPISI / CONSTRUCTION

İletken / conductor

- 1 Som veya örgülü bakır
Solid or stranded copper
(Class 1 or Class 2)



Min. bükülme yarı çapı
Min. bending radius



Maks. kısa devre sıcaklığı
Max. short circuit
temperature



Deney gerilimi
AC test voltage

İzole / insulation

- 2 XLPE Çapraz bağlı polietilen
Cross linkable polyethylene



Maks. çalışma sıcaklığı
Max. operating temperature



Beyan gerilimi U₀/U
Rated voltage U₀/U



Tek kablo düşey alev
yayılma testi
Flame propagation test on
single cable - EN 60332-1

Dolgu / filler

- 3 PVC Polivinil klorür
Polyvinyl chloride

Dış kılıf / outer sheath

- 4 PVC Polivinil klorür
Polyvinyl chloride



Kurşunsuz
Lead free

UYGULAMA ALANLARI / APPLICATIONS



Dielektrik kaybı çok düşük olan bu kablolar bina içinde, boru içinde ve endüstri bölgelerinde ya da mekanik hasar beklenmeyen dağıtım merkezlerinde ve ani yük değişimlerinin olduğu enerji tesislerinde kullanılır. Yüksek çalışma sıcaklıklarına uyum gösterir, daha dayanıklı ve daha uzun ömürlüdür.
This cable having very low dielectric loss is used indoor, in cable ducts and in industrial plants or switching stations where mechanical damage is not anticipated. Suitable for comparatively high ambient temperature due to high maximum permissible conductor temperature.

TEKNİK VERİLER / TECHNICAL DATA

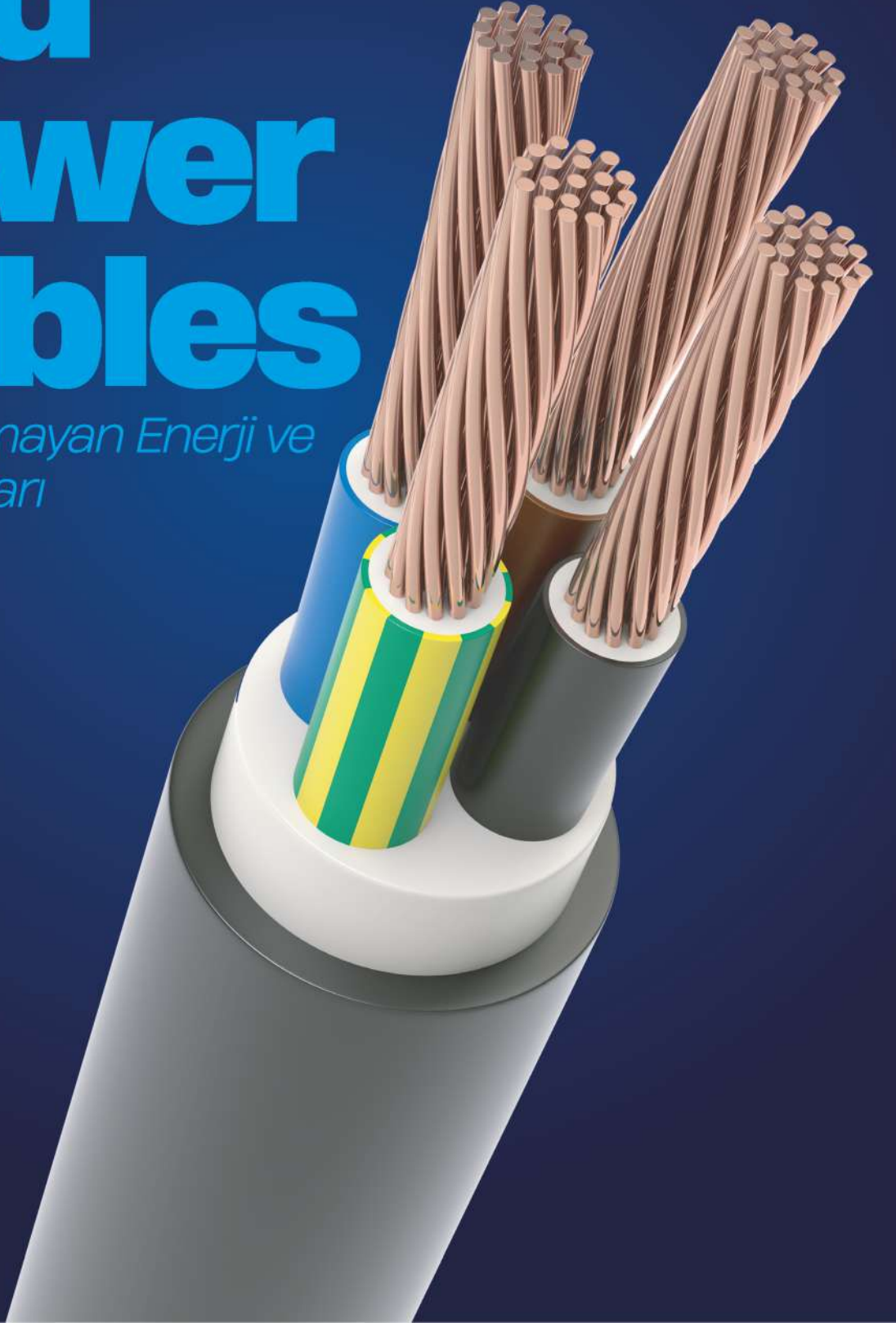
Cu/XLPE/PVC

Nominal Kesit mm ² <i>Nominal Cross Section mm²</i>	Yaklaşık Dış Çap mm <i>Overall Diameter mm approximately</i>	Yaklaşık Net Ağırlık kg/km <i>Net Weight kg/km approximately</i>	İletken Direnci Max. ohm/km(20°C) <i>Conductor DC Resistance at (20°C) max. ohm/km</i>	Akım Taşıma Kapasitesi <i>Current Carrying Capacity in</i>			
				Havada (A) <i>Air (A)</i>			
YXV(N2XY) (0,6/1 kV)				∞	∞	∞	∞
1x4	6,7	77	4,61	66	54	56	40
1x6	7,2	98	3,08	82	67	73	53
1x10	8,5	141	1,83	109	89	101	74
1x16	9,0	200	1,15	139	115	137	101
1x25	10,4	294	0,727	179	148	182	135
1x35	11,5	389	0,524	213	177	226	169
1x50	13,0	515	0,387	251	209	275	207
2x1,5	10,14	145	12,1	37			26
2x2,5	10,92	179	7,41	49			36
2x4	11,82	227	4,61	64			49
2x6	12,82	285	3,08	79			63
2x10	15,10	420	1,83	106			86
2x16	17,2	587	1,15	137			115
2x25	20,0	847	0,727	176			149
3x1,5	9,80	143	12,1	31			24
3x2,5	10,80	187	7,41	40			32
3x4	12,1	259	4,61	52			42
3x6	13,5	345	3,08	64			53
3x10	16,2	525	1,83	86			74
3x16	18,2	732	1,15	112			98
3x25	21,3	1075	0,727	145			133
4x1,5	11,1	186	12,1	31			24
4x2,5	12,0	236	7,41	40			32
4x4	13,1	316	4,61	52			42
4x6	14,6	422	3,08	64			53
4x10	17,4	639	1,83	86			74
4x16	19,7	906	1,15	112			98



Halogen Free Energy and Power Cables

*Halogen olmayan Enerji ve
Güç Kabloları*



TEK DAMARLI, HALOJENSİZ, ALEV GECİKTİRİCİLİ KABLOLAR
SINGLE CORE, HALOGEN FREE, FLAME RETARDANT CABLES

STANDARTLAR
STANDARDS
TS EN 50525-3-31



YAPISI / CONSTRUCTION

iletken / conductor

- 1 İnce çok telli bakır
Fine-stranded copper
(Class 5)

izole / insulation

- 2 Düşük duman yoğunluklu
halojen içermez
Low smoke zero halogen

TEKNİK ÖZELLİKLER / SPECIFICATIONS



Min. bükülme yarı çapı
Min. bending radius
D<8 ise 4xD
8<D<12 ise 5xD
D>12 ise 6xD



300/500 V
450/750 V
Beyan gerilimi U₀/U
Rated voltage U₀/U



Düşük duman
yoğunluğu
Low smoke - EN 61034



70°
Maks. çalışma sıcaklığı
Max. operating temperature



2 kV/2.5 kV
Deney gerilimi
AC test voltage



Halojensiz
Halogen free
EN 50525-1- EN 50267



160°
Maks. kısa devre sıcaklığı
Max. short circuit
temperature



Tek kablo düşey alev
yayılma testi
Flame propagation test on
single cable - EN 60332-1

UYGULAMA ALANLARI / APPLICATIONS



Rafineriler, oteller, okullar, tüneller, yüksek binalar, hastaneler, bilgi işlem merkezleri ve insanların yoğun olarak bulunduğu iş merkezleri ile yangına hassas bölgelerde kullanılır.
Used in refineries, hotels, schools, tunnels, high constructions, hospitals, power plants, data processing centers, populated business centers where there is a risk of fire.

TEKNİK VERİLER / TECHNICAL DATA

Cu/LSZH

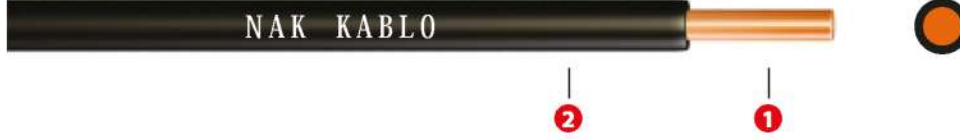
Nominal Kesit mm ² <i>Nominal Cross Section mm²</i>	Yaklaşık Dış Çap mm <i>Overall Diameter mm approximately</i>	Yaklaşık Net Ağırlık kg/km <i>Net Weight kg/km approximately</i>	İletken Direnci Max. ohm/km(20°C) <i>Conductor DC Resistance at 20°C max. ohm/km</i>	Akım Taşıma Kapasitesi <i>Current Carrying Capacity in</i>	
				Boruda (A) <i>Conduit (A)</i>	Havada (A) <i>Air (A)</i>
H05Z1-K (300/500 V)					
0,5	2,0	9	39,0	3	12
0,75	2,2	12	26,0	6	15
1	2,4	13	19,5	11	19
H07Z1-K (450/750 V)					
1,5	3,0	19	13,3	14,5	24
2,5	3,5	30	7,98	19,5	32
4	4,0	44	4,95	26	42
6	4,5	61	3,30	34	54
10	6,0	105	1,91	46	73
16	7,0	158	1,21	61	98
25	9,0	253	0,780	80	129
35	10,5	345	0,554	99	158
50	12,5	495	0,386	119	198
70	14	670	0,272	151	245
95	16,0	905	0,206	182	292
120	17,5	1132	0,161	210	344
150	20	1415	0,129	240	391
185	21,5	1720	0,106	273	448
240	24	2255	0,0801	320	528
300	27,8	2782	0,0641	-	564

H05Z1-U/H07Z1-U/H07Z1-R

NAK
KABLO

TEK DAMARLI, HALOJENSİZ, ALEV GECİKTİRİCİLİ KABLOLAR
SINGLE CORE, HALOGEN FREE, FLAME RETARDANT CABLES

STANDARTLAR
STANDARDS
TS EN 50525-3-31



YAPISI / CONSTRUCTION

iletken / conductor

- 1 Som veya örgülü bakır
Solid or stranded copper
(Class 1 or Class 2)

izole / insulation

- 2 LSZH Düşük duman yoğunluklu
halojen içermez
Low smoke zero halogen

TEKNİK ÖZELLİKLER / SPECIFICATIONS

- Min. bükülme yarı çapı
Min. bending radius
D<8 ise 4xD
8<D<12 ise 5xD
D>12 ise 6xD

- 300/500 V
450/750 V
Beyan gerilimi Uo/U
Rated voltage Uo/U

- Düşük duman
yoğunluğu
Low smoke - EN 61034

- 70° Maks. çalışma sıcaklığı
Max. operating temperature

- 2 kV/2.5 kV
Deney gerilimi
AC test voltage

- Halojensiz
Halogen free
EN 50525-1 - EN 50267

- 160° Maks. kısa devre sıcaklığı
Max. short circuit
temperature

- Tek kablo düşey alev
yayılma testi
Flame propagation test on
single cable - EN 60332-1

UYGULAMA ALANLARI / APPLICATIONS



Rafineriler, oteller, okullar, tüneller, yüksek binalar, hastaneler, bilgi işlem merkezleri ve insanların yoğun olarak bulunduğu iş merkezleri ile yangına hassas bölgelerde kullanılır.
Used in refineries, hotels, schools, tunnels, high constructions, hospitals, power plants, data processing centers, populated business centers where there is a risk of fire.

TEKNİK VERİLER / TECHNICAL DATA

Cu/LSZH

Nominal Kesit mm ² <i>Nominal Cross Section mm²</i>	Yaklaşık Dış Çap mm <i>Overall Diameter mm approximately</i>	Yaklaşık Net Ağırlık kg/km <i>Net Weight kg/km approximately</i>	İletken Direnci Max. ohm/km(20°C) <i>Conductor DC Resistance at (20°C) max. ohm/km</i>	Akım Taşıma Kapasitesi <i>Current Carrying Capacity in</i>	
				Boruda (A) <i>Conduit (A)</i>	Havada (A) <i>Air (A)</i>
H05Z1-U (300/500 V)					
0,5	2	10	36,0	3	12
0,75	2,2	13	24,5	6	15
1	2,4	16	18,1	11	19
H07Z1-U / H07Z1-R (450/750 V)					
1,5	2,7	21	12,1	14.5	24
2,5	3,3	34	7,41	19.5	32
4	3,7	50	4,61	26	42
6	4,2	71	3,08	34	54
10-U	5,4	116	1,83	46	73
10-R	6	116	1,83	46	73
16	7	168	1,15	61	98
25	8,8	258	0,727	80	129
35	9,5	346	0,524	99	158
50	11	468	0,387	119	198
70	12.5	660	0,268	151	245
95	15	910	0,193	172	292
120	16,5	1140	0,153	210	344
150	18	1405	0,124	240	391
185	20.0	1745	0,0991	273	448
240	23	2295	0,0754	320	528
300	27,6	2995	0,0601	-	645
400	31,3	3900	0,0470	-	770

HALOJENSİZ, ALEV GECİKTİRİCİLİ, ISIYA DAYANIKLI, ESNEK, TEK DAMARLI KABLOLAR
HALOGEN FREE, FLAME RETARDANT, HEAT RESISTANT, FLEXIBLE, SINGLE CORE CABLES

STANDARTLAR
STANDARDS

TS EN 50525-3-41
BS EN 50525-3-41



YAPISI / CONSTRUCTION

iletken / conductor

- 1 İnce çok telli bakır
 Fine-stranded copper
 (Class 5)

izole / insulation

- 2 Düşük duman yoğunluklu
 halojen içermeyen çapraz bağlı
 Low smoke zero halogen cross linkable

TEKNİK ÖZELLİKLER / SPECIFICATIONS



Min. bükülme yarı çapı
 Min. bending radius
 D<8 ise 4xD
 8<D<12 ise 5xD
 D>12 ise 6xD



Maks. çalışma sıcaklığı
 Max. operating temperature



Maks. kısa devre sıcaklığı
 Max. short circuit temperature



Beyan gerilimi U₀/U
 Rated voltage U₀/U



Deney gerilimi
 AC test voltage



Düşük duman yoğunluğu
 Low smoke - EN 61034



Halojensiz
 Halogen free
 EN 50525-1 - EN 50267



Tek kablo düşey alev yayılma testi
 Flame propagation test on single cable EN 60332-1

UYGULAMA ALANLARI / APPLICATIONS



Sıva üzeri, sıva altında, kanal içinde veya benzer kapalı sistemlerde kullanılır. Yangında düşük seviyede duman ve zehirli gaz çıkartma özelliğine sahiptir.
 Installation in surface mounted or embedded conduits or similar closed systems. Low level of smoke emission and corrosive gases in case of fire.

TEKNİK VERİLER / TECHNICAL DATA

Cu/XL-LSZH

Nominal Kesit mm² <i>Nominal Cross Section mm²</i>	Yaklaşık Dış Çap mm <i>Overall Diameter mm approximately</i>	Yaklaşık Net Ağırlık kg/km <i>Net Weight kg/km approximately</i>	İletken Direnci Max. ohm/km(20°C) <i>Conductor DC Resistance at (20°C) max. ohm/km</i>	Akım Taşıma Kapasitesi <i>Current Carrying Capacity In</i>	
				Boruda (A) <i>Conduit (A)</i>	Havada (A) <i>Air (A)</i>
H05Z-K (300/500 V) / 2491B					
0,50	2,1	9	39,0	-	12
0,75	2,3	12	26,0	-	15
1	2,5	13	19,5	11	19
H07Z-K (450/750 V) / 6491B					
1,5	3,0	19	13,3	14,5	24
2,5	3,7	30	7,98	19,5	32
4	4,5	44	4,95	26	42
6	5,5	61	3,30	34	54
10	6,5	105	1,91	46	73
16	7,5	158	1,21	61	98
25	10,0	253	0,780	80	129
35	11,0	345	0,554	99	158
50	13,0	495	0,386	119	198
70	15,0	670	0,272	151	245
95	17,0	905	0,206	182	292
120	19,0	1132	0,161	210	344
150	21,0	1415	0,129	240	391
185	23,3	1720	0,106	273	448
240	27,0	2255	0,0801	320	528

HALOJENSİZ, ALEV GECİKTİRİCİLİ, ISIYA DAYANIKLI, TEK DAMARLI KABLOLAR
HALOGEN FREE, FLAME RETARDANT, HEAT RESISTANT, SINGLE CORE CABLES

STANDARTLAR

STANDARDS

TS EN 50525-3-41
BS EN 50525-3-41



YAPISI / CONSTRUCTION

iletken / conductor

- 1 Som veya örgülü bakır
Solid or stranded copper
(Class 1 or Class 2)

izole / insulation

- 2 Düşük duman yoğunluklu
halojen içermeyen çapraz bağlı
Low smoke zero halogen cross linkable

TEKNİK ÖZELLİKLER / SPECIFICATIONS



Min. bükülme yarı çapı
Min. bending radius
D<8 ise 4xD
8<D<12 ise 5xD
D>12 ise 6xD



Maks. çalışma sıcaklığı
Max. operating temperature



Maks. kısa devre sıcaklığı
Max. short circuit temperature



Beyan gerilimi Uo/U
Rated voltage Uo/U



2,5 kV Deney gerilimi
AC test voltage



Düşük duman yoğunluğu
Low smoke - EN 61034



Halojensiz
Halogen free
EN 50525-1 - EN 50267



Tek kablo düşey alev yayılma testi
Flame propagation test on single cable - EN 60332-1

UYGULAMA ALANLARI / APPLICATIONS



Sıva üzeri, sıva altında, kanal içinde veya benzer kapalı sistemlerde kullanılır. Yangında düşük seviyede duman ve zehirli gaz çıkartmama özelliğine sahiptir.
Installation in surface mounted or embedded conduits or similar closed systems. Low level of smoke emission and corrosive gases in case of fire.

TEKNİK VERİLER / TECHNICAL DATA

Cu/XL-LSZH

Nominal Kesit mm ² <i>Nominal Cross Section mm²</i>	Yaklaşık Dış Çap mm <i>Overall Diameter mm approximately</i>	Yaklaşık Net Ağırlık kg/km <i>Net Weight kg/km approximately</i>	İletken Direnci Max. ohm/km(20°C) <i>Conductor DC Resistance at (20°C) max. ohm/km</i>	Akım Taşıma Kapasitesi <i>Current Carrying Capacity in</i>	
				Boruda (A) <i>Conduit (A)</i>	Havada (A) <i>Air (A)</i>
H07Z-U / H07Z-R (450/750 V) / 6491B					
1,5	2,7	21	12,1	14,5	24
2,5	3,3	34	7,41	19,5	32
4	3,7	50	4,61	26	42
6	4,2	71	3,08	34	54
10	5,4	116	1,83	46	73
16	7,0	161	1,15	61	98
25	8,5	258	0,727	80	129
35	9,5	346	0,524	99	158
50	11,0	468	0,387	119	198
70	12,5	660	0,268	151	245
95	15,0	910	0,193	182	292
120	16,5	1140	0,153	210	344
150	18,0	1405	0,124	240	391
185	20,0	1745	0,0991	273	448
240	23,0	2295	0,0754	320	528
300	26,0	2900	0,0601	-	645
400	29,0	3700	0,0470	-	770

HALOJENSİZ, ALEV GECİKTİRİCİLİ, ÇOK DAMARLI BÜKÜLGEN KABLOLAR
HALOGEN FREE, FLAME RETARDANT, MULTI-CORE FLEXIBLE CABLES

STANDARTLAR
STANDARDS
TS EN 50525-3-11

NAK KABLO



YAPISI / CONSTRUCTION

iletken / conductor

- 1 İnce çok telli bakır
Fine-stranded copper
(Class 5)

izole / insulation

- 2 Düşük duman yoğunluklu
halojen içermez
Low smoke zero halogen

dış kılıf / outer sheath

- 3 Düşük duman yoğunluklu
halojen içermez
Low smoke zero halogen

TEKNİK ÖZELLİKLER / SPECIFICATIONS



Min. bükülme yarı çapı
Min. bending radius
 $D \leq 12$ ise $5 \times D$
 $D > 12$ ise $6 \times D$



Beyan gerilimi U_0/U
Rated voltage U_0/U



Düşük duman
yoğunluğu
Low smoke - EN 61034



Maks. çalışma sıcaklığı
Max. operating temperature



Deney gerilimi
AC test voltage



Halojensiz
Halogen free
EN 50525-1 EN 50267



Maks. kısa devre sıcaklığı
Max. short circuit
temperature



Tek kablo düşey alev
yayılma testi
Flame propagation test on
single cable - EN 60332-1

UYGULAMA ALANLARI / APPLICATIONS



Rafineriler, oteller, okullar, tüneller, yüksek binalar, hastaneler, bilgi işlem merkezleri ve insanların yoğun olarak bulunduğu iş merkezleri ile yangına hassas bölgelerde kullanılır.
Used in refineries, hotels, schools, tunnels, high constructions, hospitals, power plants, data processing centers, populated business centers where there is a risk of fire.

TEKNİK VERİLER / TECHNICAL DATA

Cu/LSZH/LSZH

Nominal Kesit mm ² Nominal Cross Section mm ²	Yaklaşık Dış Çap mm Overall Diameter mm approximately	Yaklaşık Net Ağırlık kg/km Net Weight kg/km approximately	İletken Direnci Max. ohm/km(20°C) Conductor DC Resistance at (20°C) max. ohm/km	Akım Taşıma Kapasitesi Current Carrying Capacity in Havada (A) Air (A)
H03Z1Z1-F (300/300 V)				
2x0,50	5,0	40	39,0	3
2x0,75	5,5	50	26,0	6
3x0,50	5,3	44	39,0	3
3x0,75	5,8	54	26,0	6
4x0,50	5,8	54	39,0	3
4x0,75	6,4	68	26,0	6
H05Z1Z1-F (300/500V)				
2x0,75	6,3	57	26,0	6
2x1	6,6	65	19,5	10
2x1,5	7,4	84	13,3	16
2x2,5	9,1	130	7,98	25
2x4	10,4	180	4,95	32
3x0,75	6,7	68	26,0	6
3x1	7,0	78	19,5	10
3x1,5	8,1	107	13,3	16
3x2,5	9,9	164	7,98	25
3x4	11,3	228	4,95	32
4x0,75	7,3	83	26,0	6
4x1	7,9	101	19,5	10
4x1,5	9,0	134	13,3	16
4x2,5	10,8	201	8,0	25
4x4	12,3	281	4,95	32
5x0,75	8,1	102	26,0	6
5x1	8,6	121	19,5	10
5x1,5	10,0	166	13,3	16
5x2,5	12,0	250	7,98	25
5x4	13,9	366	4,95	32

6241 B 6242 B 6243 B (BS 7211:2012)

NAK
K A B L O

XLPE İZOLELİ, LSZH KILIFLI YASSI KABLOLAR
XLPE INSULATED LSZH SHEATED FLAT TWIN CABLES

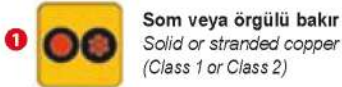
STANDARTLAR
STANDARDS
BS 7211:2012

NAK KABLO



YAPISI / CONSTRUCTION

iletken / conductor



Som veya örgülü bakır
Solid or stranded copper
(Class 1 or Class 2)

Dış kılıf / Outer Sheath



Düşük Duman
Yoğunluklu
Halojen İçermeyen
Low Smoke Zero
Halogen

izole / insulation

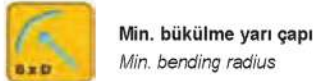


Çapraz Bağlı
Poliyeten
Cross Linked
Polyethylene



Halojensiz
Halogen free
EN 50525-1 - EN
50267

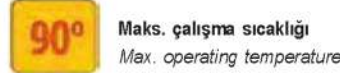
TEKNİK ÖZELLİKLER / SPECIFICATIONS



Min. bükülme yarı çapı
Min. bending radius



Beyan gerilimi Uo/U
Rated voltage Uo/U



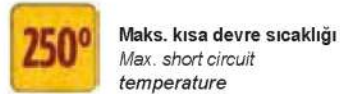
Maks. çalışma sıcaklığı
Max. operating temperature



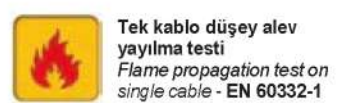
Deney gerilimi
AC test voltage



Düşük duman yoğunluğu
Low smoke - EN 61034



Maks. kısa devre sıcaklığı
Max. short circuit
temperature



Tek kablo düşey alev
yayılma testi
Flame propagation test on
single cable - EN 60332-1

UYGULAMA ALANLARI / APPLICATIONS



Mekanik hasar riski taşımayan bina içi tesisatlarda, sıva üstü uygulamalarda kullanılır..

Used as surface wiring where there is little mechanical damage risk, or in conduit.

TEKNİK VERİLER / TECHNICAL DATA

Cu/XLPE/LSZH

Nominal Kesit mm ² Nominal Cross Section mm ²	Yaklaşık Dış Çap mm Overall Diameter mm approximately	Yaklaşık Net Ağırlık kg/km Net Weight kg/km approximately	İletken Direnci Max. ohm/km(20°C) Conductor DC Resistance at (20°C) max. ohm/km	Akım Taşıma Kapasitesi Current Carrying Capacity in Havada (A) Air (A)
6241 B - 6242 B - 6243 B (300/500 V)				
1x1,5+1	4,4x5,4 - 5,3x6,6	46	12,1/18,1	23
2x1+1	4,1x7,6 - 5,0x9,1	65	18,10	17
2x1,5+1	4,4x8,1 - 5,3x9,7	76	12,1/18,1	23
2x2,5+1,5	4,9x9,3 - 6,0x11,2	108	7,41/12,1	31
2x4+1,5	5,5x10,4 - 6,7x12,6	148	4,61/12,1	42
2x6+2,5	6,2x12,0 - 7,5x14,6	208	3,08/7,41	54
2x10+4	7,3x14,5 - 8,8x17,6	317	1,83/4,61	75
2x16+6	8,4x17,0 - 10,1x20,5	448	1,15/3,08	100
3x1+1	4,1x10,0 - 5,1x12,1	87	18,1	17
3x1,5+1	4,4x10,7 - 5,3x12,9	104	12,1/18,1	23
3x2,5+1,5	4,9x12,0 - 6,0x14,6	142	7,41/12,1	31

XLPE İZOLELİ, HALOJENSİZ, ÇOK DAMARLI BÜKÜLGEN KABLOLAR
XLPE INSULATION, HALOGEN FREE, MULTI-CORE FLEXIBLE CABLES

STANDARTLAR
STANDARDS
TSE K 176

NAK KABLO

**YAPISI / CONSTRUCTION**

iletken / conductor

- 1 İnce çok telli bakır
Fine-stranded copper
(Class 5)

izole / insulation

- 2 Çapraz bağlı polietilen
Cross linkable polyethylene

dış kılıf / outer sheath

- 3 Düşük duman yoğunluklu
halojen içermez
Low smoke zero halogen

TEKNİK ÖZELLİKLER / SPECIFICATIONS

Min. bükülme yarı çapı
Min. bending radius
D ≤ 12 ise 5D - D > 12 ise 6D



Beyan gerilimi U₀/U
Rated voltage U₀/U



Düşük duman
yoğunluğu
Low smoke - EN 61034



Maks. çalışma sıcaklığı
Max. operating temperature



Deney gerilimi
AC test voltage



Halojensiz
Halogen free
EN 50525-1 - EN 50267



Maks. kısa devre sıcaklığı
Max. short circuit
temperature



Demet kablo düşey alev
yayılma testi
Flame retardant test of
Bunched cables
EN 60332-3-24 Cat.C

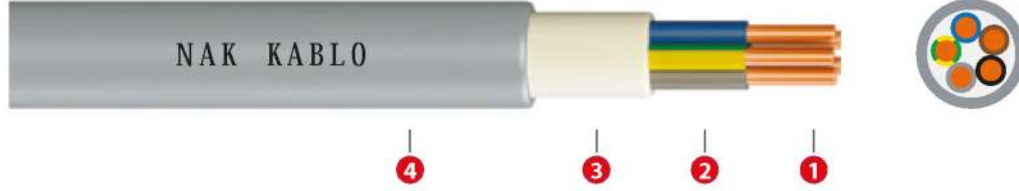
UYGULAMA ALANLARI / APPLICATIONS

Rafineriler, oteller, okullar, tüneller, yüksek binalar, hastaneler, bilgi işlem merkezleri ve insanların yoğun olarak bulunduğu iş merkezleri ile yangına hassas bölgelerde kullanılır.
Used in refineries, hotels, schools, tunnels, high constructions, hospitals, power plants, data processing centers, populated business centers where there is a risk of fire.

TEKNİK VERİLER / TECHNICAL DATA**Cu/XLPE/LSZH**

Nominal Kesit mm ² Nominal Cross Section mm ²	Yaklaşık Dış Çap mm Overall Diameter mm approximately	Yaklaşık Net Ağırlık kg/km Net Weight kg/km approximately	İletken Direnci Max. ohm/km(20°C) Conductor DC Resistance at (20°C) max. ohm/km	Akım Taşıma Kapasitesi Current Carrying Capacity in Havada (A) Air (A)
052XZ1-F (300/500 V)				
2x0,75	6,1	55	26,0	6
2x1	6,4	63	19,5	10
2x1,5	8,3	103	13,3	16
2x2,5	9,1	135	7,98	25
2x4	10,3	182	4,95	32
3x0,75	6,5	63	26,0	6
3x1	6,8	74	19,5	10
3x1,5	8,4	113	13,3	16
3x2,5	9,7	156	7,98	25
3x4	11,1	224	4,95	32
4x0,75	7,3	81	26,0	6
4x1	7,7	97	19,5	10
4x1,5	9,3	141	13,3	16
4x2,5	10,6	193	7,98	25
4x4	12,2	280	4,95	32
5x0,75	7,9	99	26,0	6
5x1	8,0	117	19,5	10
5x1,5	9,6	154	13,3	16
5x2,5	10,6	209	7,98	25
5x4	13,2	332	4,95	32

HALOJENSİZ, ALEV İLETMİYEN ÇOK DAMARLI KABLOLAR HALOGEN FREE, FLAME RETARDANT MULTI-CORE CABLES



**STANDARTLAR
STANDARDS**
VDE 0250-214
BS 7211:2012
TSEK

YAPISI / CONSTRUCTION

TEKNİK ÖZELLİKLER / SPECIFICATIONS

iletken / conductor	dolgu / filler				
1 Som veya örgülü bakır Solid or stranded copper (Class 1 or Class 2)	3 HFFR Halojen içermeyen alev geciktiricili Halogen free flame retardant	12 x D	Min. bükülme yarı çapı Min. bending radius	2 kv	Deney gerilimi AC test voltage
izole / insulation	dış kılıf / outer sheath				
2 XLPE Çapraz bağlı polietilen Cross linkable polyethylene	4 HFFR Halojen içermeyen alev geciktiricili Halogen free flame retardant	90°	Maks. çalışma sıcaklığı Max. operating temperature		Düşük duman yoğunluğu Low smoke - EN 61034
		250°	Maks. kısa devre sıcaklığı Max. short circuit temperature		Halojensiz Halogen free EN 50525-1 - EN 50267
		300/500 V	Beyan gerilimi Uo/U Rated voltage Uo/U		Demet kablo düşey alev yayılma testi Flame retardant test of bunched cables EN 60332-3-24 Cat. C

UYGULAMA ALANLARI / APPLICATIONS



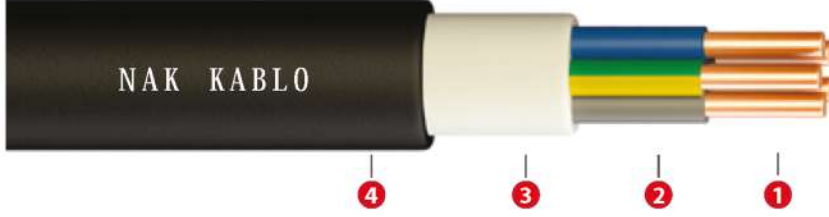
Rafineriler, oteller, okullar, tüneller, yüksek binalar, hastaneler, bilgi işlem merkezleri ve insanların yoğun olarak bulunduğu iş merkezleri ile yangına hassas bölgelerde kullanılır.
Used in refineries, hotels, schools, tunnels, high constructions, hospitals, power plants, data processing centers, populated business centers where there is a risk of fire.

TEKNİK VERİLER / TECHNICAL DATA

Cu/XLPE/HFFR/HFFR

Nominal Kesit mm ² Nominal Cross Section mm ²	Yaklaşık Dış Çap mm Overall Diameter mm approximately	Yaklaşık Net Ağırlık kg/km Net Weight kg/km approximately	İletken Direnci Max. ohm/km(20°C) Conductor DC Resistance at (20°C) max. ohm/km	Akım Taşıma Kapasitesi Current Carrying Capacity in Havada (A) Air (A)
NHXMH-O/NHXMH-J (300/500 V)				
2x1,5	8,3	101	12,1	22
2x2,5	9,1	130	7,41	30
2x4	10,4	182	4,61	40
2x6	11,4	235	3,08	51
2x10	14,2	379	1,83	70
2x16	16,8	548	1,15	98
3x1,5	8,7	118	12,1	22
3x2,5	9,6	157	7,41	30
3x4	11,0	224	4,61	40
3x6	12,4	303	3,08	51
3x10	15,0	475	1,83	70
3x16	18,2	711	1,15	98
4x1,5	9,3	140	12,1	18,5
4x2,5	10,3	189	7,41	25
4x4	12,3	286	4,61	34
4x6	13,9	389	3,08	43
4x10	16,2	589	1,83	60
4x16	19,8	888	1,15	80
4x25	24,0	1359	0,727	127
4x35	26,7	1794	0,524	158
5x1,5	10,0	165	12,1	18,5
5x2,5	11,1	224	7,41	25
5x4	13,6	353	4,61	34
5x6	15,0	467	3,08	43
5x10	17,6	714	1,83	60
5x16	21,9	1098	1,15	80
5x25	26,1	1652	0,727	127
7x1,5	10,7	201	12,1	15,5
7x2,5	12,3	289	7,41	21

HALOJENSİZ, ALEV YAYILMASINA DAYANIKLI ÇOK DAMARLI KABLOLAR HALOGEN FREE, FLAME RETARDANT MULTI-CORE CABLES



STANDARTLAR
STANDARDS
VDE 0276-604
TS HD 604-S1

YAPISI / CONSTRUCTION

iletken / conductor

- 1 Som veya örgülü bakır
Solid or stranded copper
(Class 1 or Class 2)

dolgu / filler

- 3 HFFR
Halojen içermeyen
alev geciktiricili
Halogen free flame retardant

izole / insulation

- 2 XLPE
Çapraz bağlı polietilen
Cross linkable polyethylene

dış kılıf / outer sheath

- 4 HFFR
Halojen içermeyen
alev geciktiricili
Halogen free flame retardant

TEKNİK ÖZELLİKLER / SPECIFICATIONS



Min. bükülme yarı çapı
Min. bending radius
<95 mm² ise 15xD
≥95 mm² ise 18xD



Deney gerilimi
AC test voltage



Maks. çalışma sıcaklığı
Max. operating temperature



Düşük duman
yoğunluğu
Low smoke - EN 61034



Maks. kısa devre sıcaklığı
Max. short circuit temperature



Halojensiz
Halogen free
EN 50525-1 - EN 50267



Beyan gerilimi Uo/U
Rated voltage Uo/U



Demet kablo düşey alev
yayılma testi
Flame retardant test of
bunched cables
EN 60332-3-24 Cat. C

UYGULAMA ALANLARI / APPLICATIONS



Rafineriler, oteller, okullar, tüneller, yüksek binalar, hastaneler, bilgi işlem merkezleri ve insanların yoğun olarak bulunduğu iş merkezleri ile yangına hassas bölgelerde kullanılır.
Used in refineries, hotels, schools, tunnels, high constructions, hospitals, power plants, data processing centers, populated business centers where there is a risk of fire.

TEKNİK VERİLER / TECHNICAL DATA

Cu/XLPE/HFFR/HFFR

Nominal Kesit mm ² <i>Nominal Cross Section mm²</i>	Yaklaşık Dış Çap mm <i>Overall Diameter mm approximately</i>	Yaklaşık Net Ağırlık kg/km <i>Net Weight kg/km approximately</i>	İletken Direnci Max. ohm/km(20°C) <i>Conductor DC Resistance at (20°C) max. ohm/km</i>	Akım Taşıma Kapasitesi <i>Current Carrying Capacity in</i>	
				Toprakta (A) <i>Ground (A)</i>	Havada (A) <i>Air (A)</i>
N2XH (0,6/1 kV)					
2x1,5	9,1	117	12,1	30	24
2x2,5	9,9	147	7,41	40	32
2x4	10,4	179	4,61	52	42
2x6	11,9	248	3,08	64	53
2x10	14,3	358	1,83	86	73
2x16	16,4	532	1,15	111	96
3x1,5	9,6	135	12,1	30	24
3x2,5	10,5	175	7,41	40	32
3x4	11,4	232	4,61	52	42
3x6	12,5	303	3,08	64	53
3x10	15,7	490	1,83	86	73
3x16	17,3	673	1,15	111	96
4x1,5	10,4	162	12,1	30	24
4x2,5	11,3	210	7,41	40	32
4x4	12,6	292	4,61	52	42
4x6	13,9	386	3,08	64	53
4x10	16,8	598	1,83	86	73
4x16	19,2	860	1,15	111	96
5x1,5	10,9	183	12,1	30	24
5x2,5	12,2	250	7,41	40	32
5x4	13,6	349	4,61	52	42
5x6	14,9	460	3,08	64	53
5x10	18,2	722	1,83	86	73
5x16	21,0	1052	1,15	111	96

CERTIFICATES

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Ürün Kataloğu
Product Catalogue

