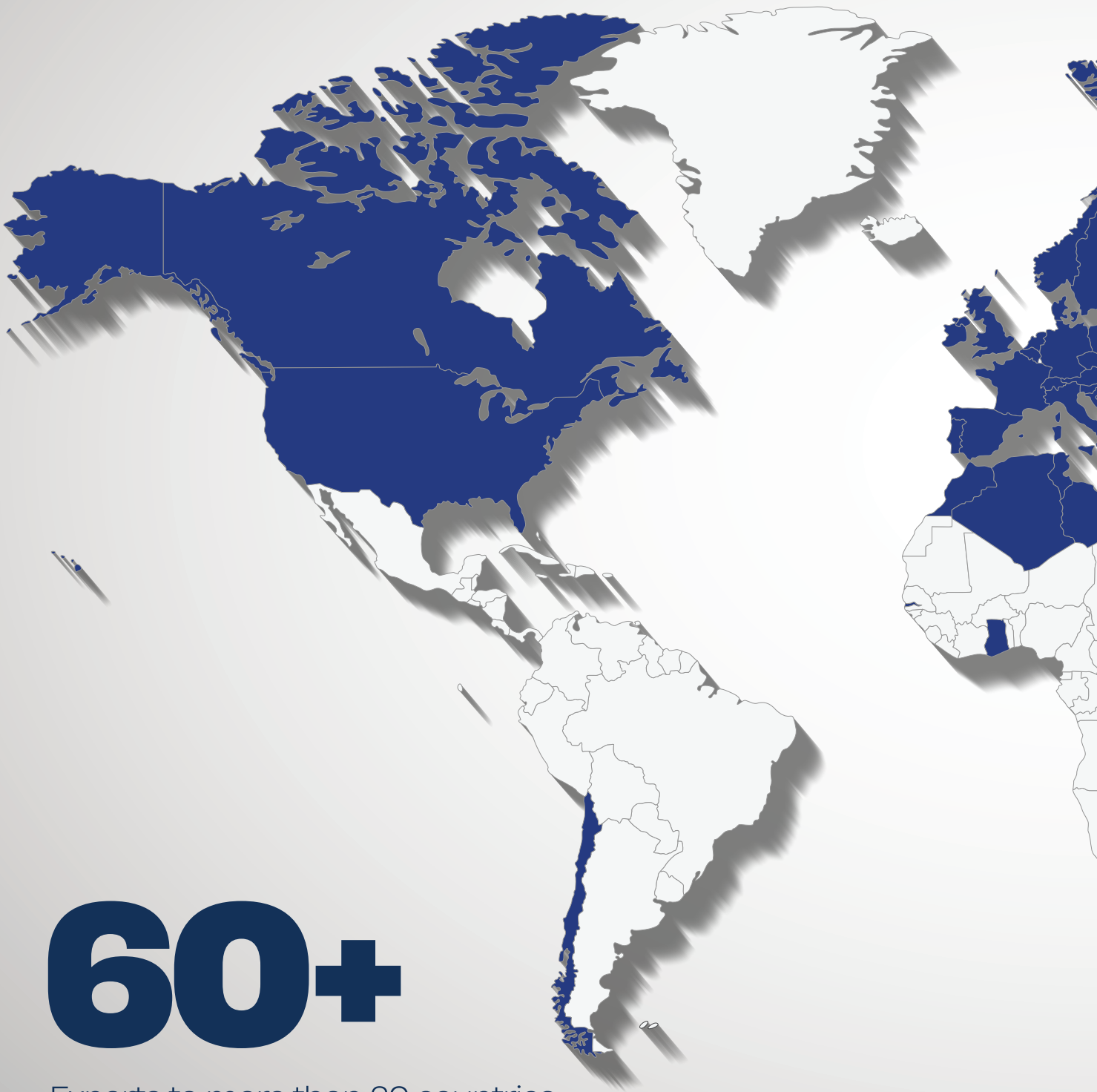


The Technology Sur



60+

Exports to more than 60 countries

rounding The World



Green Energy Cables

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

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

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
NHXMH	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

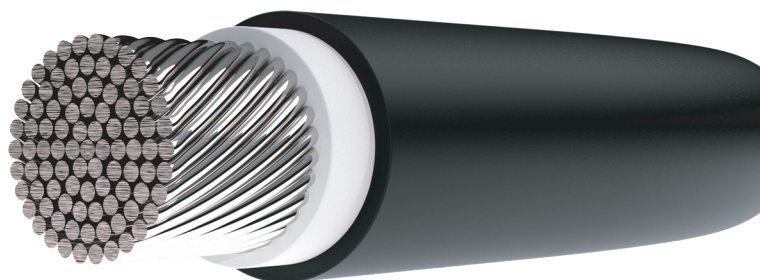


H1Z2Z2-K SOLAR CABLE

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

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

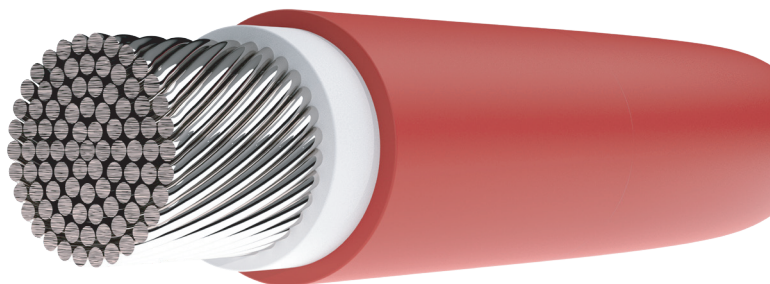
Nominal Cross Section	Maximum DC Resistance of the Conductor at 20 °C	Maximum Insulation Resistance at 20 °C	Maximum Insulation Resistance at 90 °C	Current Carrying Capacity		
				Single cable free in air	Single cable on surfaces	Two loaded cables adjacent on surfaces
mm ²	Ω/km	MΩ/km	MΩ/km	A	A	A
1x1,5	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

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



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

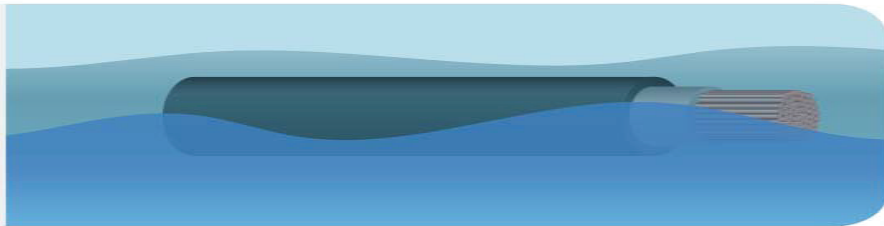
H1Z2Z2-K SOLAR CABLE

HALOGEN FREE CABLE FOR USE IN PHOTOVOLTAIC SYSTEMS



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.

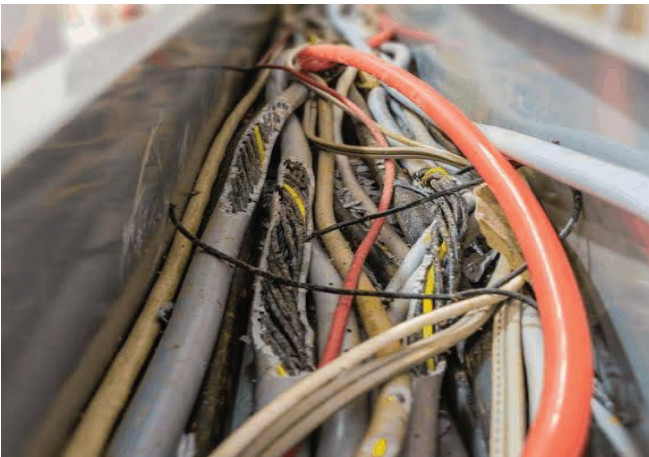


H1Z2Z2-K SOLAR CABLE

HALOGEN FREE CABLE FOR USE IN PHOTOVOLTAIC SYSTEMS



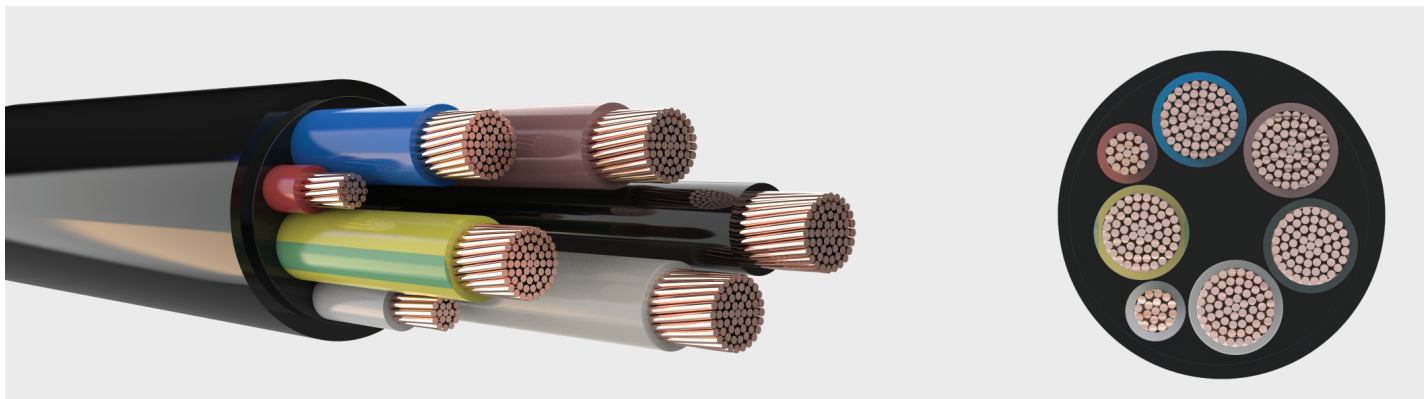
H1Z2Z2-K ANTI-RODENT ANTI-TERMIT SOLAR CABLES



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

Dimensional and insulation resistance values of H05BZ5-F and H07BZ5-F ^a							
	1	2	3	4	5	6	7
Rated voltage U_0/U	Number and nominal cross sectional area of conductors	Insulation thickness power core Specified value	Sheath thickness Specified value	Mean overall diameter Lower limit Informative value	Mean overall diameter Upper limit Informative value	Minimum insulation resistance at 20 °C	Minimum insulation resistance at 90 °C
V	mm ²	mm	mm	mm	mm	MΩ·km	MΩ·km
450/750	3 × 1,5	0,7	1,0	8,2	10,5	10,5	0,0105
450/750	3 × 2,5	0,7	1,0	9,3	11,9	8,6	0,0086
450/750	3 × 4	0,7	1,1	10,8	13,8	7,1	0,0071
450/750	3 × 6	0,7	1,2	12,3	15,7	6,1	0,0061
450/750	4 × 2,5	0,7	1,0	10,2	13,1	8,6	0,0086
450/750	4 × 4	0,7	1,1	11,9	15,2	7,1	0,0071
450/750	4 × 6	0,7	1,2	13,5	17,3	6,1	0,0061
450/750	5 × 2,5	0,7	1,2	11,7	15,0	8,6	0,0086
450/750	5 × 4	0,7	1,3	13,5	17,3	7,1	0,0071
450/750	5 × 6	0,7	1,4	15,4	19,7	6,1	0,0061

^a : Mean overall dimension values in Table 4a are referring to constructions with one or two control core(s).

PVC Energy and Power Cables



H05V-U / H07V-U

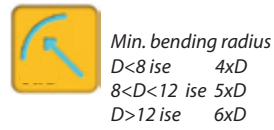
PVC INSULATED, NON-SHEATHED SINGLE CORE CABLES



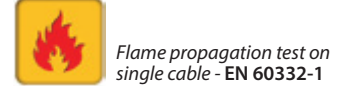
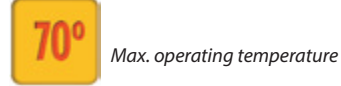
STANDARDS
 TS EN 50525-2-31
 BS EN 50525-2-31
 DIN EN 50525-2-31
 IEC 60227-3

CONSTRUCTION

conductor



insulation



APPLICATIONS



Used in closed and dry areas, switch and distribution boards, fixed installations laying in conduit on and under plaster.

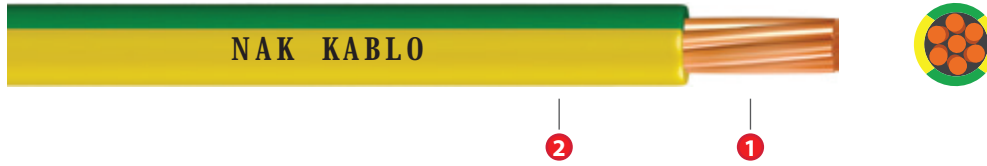
TECHNICAL DATA

Cu/PVC

Nominal Cross Section mm ²	Overall Diameter mm approximately	Net Weight kg/km approximately	Conductor DC Resistance at (20°C) max. ohm/km	Current Carrying Capacity in	
				Conduit (A)	Air (A)
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

H07V-R

PVC INSULATED, SINGLE CORE CABLES



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

CONSTRUCTION

SPECIFICATIONS

1 conductor
 Stranded copper (Class2)

2 insulation
 Polyvinyl chloride

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

160° Max. short circuit temperature

2,5 kV AC test voltage

70° Max. operating temperature

450/750 V Rated voltage Uo/U

Pb Lead free

Flame propagation test on single cable - EN 60332-1

APPLICATIONS



Used in closed and dry areas, switch and distribution boards, fixed installations laying in conduit on and under plaster.

TECHNICAL DATA

Cu/PVC

Nominal Cross Section mm ²	Overall Diameter mm approximately	Net Weight kg/km approximately	Conductor DC Resistance at (20°C) max. ohm/km	Current Carrying Capacity in	
				Conduit (A)	Air (A)
H07V-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	-	-

H05V-K / H07V-K

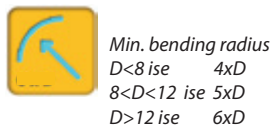
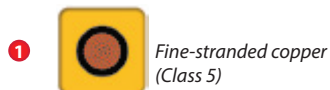
PVC INSULATED, SINGLE CORE CABLES WITH FLEXIBLE COPPER CONDUCTOR



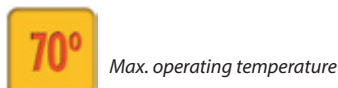
STANDARDS
 TS EN 50525-2-31
 BS EN 50525-2-31
 DIN EN 50525-2-31
 IEC 60227-3

CONSTRUCTION

conductor



insulation



APPLICATIONS



Used in closed and dry areas, switch and distribution boards, and also used for moving installations and equipments.

TECHNICAL DATA

Cu/PVC

Nominal Cross Section mm ²	Overall Diameter mm approximately	Net Weight kg/km approximately	Conductor DC Resistance at (20°C) max. ohm/km	Current Carrying Capacity in	
				Conduit (A)	Air (A)
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

PVC INSULATED, HEAT RESISTING, SINGLE CORE CABLES



STANDARDS
EN 50525-2-31

CONSTRUCTION

conductor

- 1 Solid or stranded copper (Class 1 or Class 2)

insulation

- 2 HR-PVC High temperature resistant polyvinyl chloride

SPECIFICATIONS



Min. bending radius
 $D < 8$ ise $4xD$
 $8 < D < 12$ ise $5xD$
 $D > 12$ ise $6xD$



300/500 V
450/750 V Rated voltage U_o/U



90° Max. operating temperature



2 kV/2.5 kV AC test voltage



160° Max. short circuit temperature



Flame propagation test on single cable - EN 60332-1

APPLICATIONS



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

TECHNICAL DATA

Cu/HR-PVC

Nominal Cross Section mm ²	Overall Diameter mm approximately	Net Weight kg/km approximately	Conductor DC Resistance at (20°C) max. ohm/km	Current Carrying Capacity in	
				Conduit (A)	Air (A)
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

H05V2-K / H07V2-K

PVC INSULATED, HEATRESISTING, FLEXIBLE, SINGLE CORE CABLES



STANDARDS
EN 50525-2-31

CONSTRUCTION

conductor

- 1 Fine-stranded copper (Class 5)

insulation

- 2 HR-PVC High temperature resistant polyvinyl chloride

SPECIFICATIONS

- Min. bending radius
 $D < 8 \text{ ise } 4xD$
 $8 < D < 12 \text{ ise } 5xD$
 $D > 12 \text{ ise } 6xD$

- 300/500 V
450/750 V Rated voltage U_o/U

- 90° Max. operating temperature

- 2kV/2.5kV AC test voltage

- 160° Max. short circuit temperature

- Flame propagation test on single cable - EN 60332-1

APPLICATIONS



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

TECHNICAL DATA

Cu/HR-PVC

Nominal Cross Section mm ²	Overall Diameter mm approximately	Net Weight kg/km approximately	Conductor DC Resistance at (20°C) max. ohm/km	Current Carrying Capacity in	
				Conduit (A)	Air (A)
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	-	-

H03VH-H

FLAT, FLEXIBLE TINSEL CORDS



STANDARDS
TS EN 50525-2-11

CONSTRUCTION

conductor



insulation



SPECIFICATIONS



Min. bending radius



Rated voltage Uo/U



Max. operating temperature



AC test voltage



Max. short circuit temperature



Flame propagation test on single cable - EN 60332-1

APPLICATIONS



Used in dry humid areas that there are no mechanical compulsion, under and on the plaster.



Kurşunsuz
Lead free

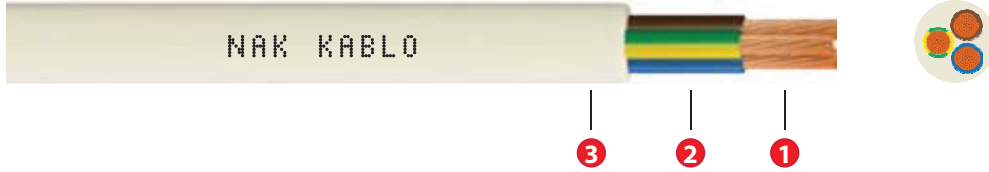
TECHNICAL DATA

Cu/PVC

Nominal Cross Section mm ²	Overall Diameter mm approximately	Net Weight kg/km approximately	Conductor DC Resistance at (20°C) max. ohm/km	Current Carrying Capacity in
				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

H03VV-F

PVC INSULATED, MULTI-CORE CABLES WITH FLEXIBLE CONDUCTOR



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

CONSTRUCTION

conductor

- 1 Fine-stranded copper (Class 5)

insulation

- 2 Polyvinyl chloride

outer sheath

- 3 Polyvinyl chloride

SPECIFICATIONS



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



Rated voltage U_0/U



Max. operating temperature



AC test voltage



Max. short circuit temperature



Flame propagation test on single cable - EN 60332-1

APPLICATIONS



Used in dry and humid areas that there are not much mechanical compulsion in which, generally used in household equipments.



Kurşunsuz
 Lead free

TECHNICAL DATA

Cu/PVC/PVC

Nominal Cross Section mm ²	Overall Diameter mm approximately	Net Weight kg/km approximately	Conductor DC Resistance at (20°C) max. ohm/km	Current Carrying Capacity in
				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

H05VV-F

PVC INSULATED, MULTI-CORE CABLES WITH FLEXIBLE CONDUCTOR



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

CONSTRUCTION

conductor



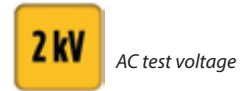
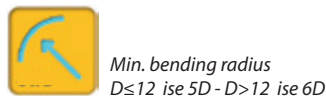
insulation



outer sheath



SPECIFICATIONS



APPLICATIONS



Used in dry and humid areas that there are not much mechanical compulsion in which, generally used in household equipments.



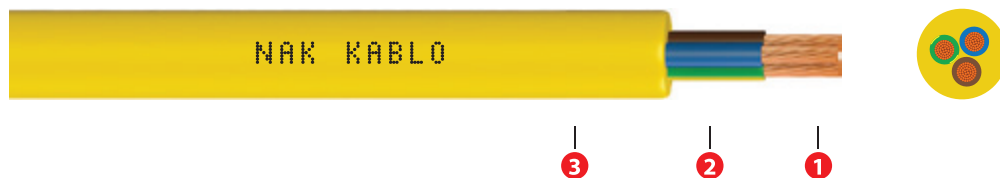
TECHNICAL DATA

Cu/PVC/PVC

Nominal Cross Section mm ²	Overall Diameter mm approximately	Net Weight kg/km approximately	Conductor DC Resistance at (20°C) max. ohm/km	Current Carrying Capacity in
				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

FLEXIBLE, ARCTIC GRADE CABLES FOR COLD ENVIRONMENT




STANDARDS
BS 6004:2012

CONSTRUCTION


conductor

- 1  Fine-stranded copper (Class 5)


insulation

- 2  Cold resistant polyvinyl chloride

outer sheath

- 3  Cold resistant polyvinyl chloride


SPECIFICATIONS

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

-  300/500 V Rated voltage U_0/U


-  60° Max. operating temperature

-  2 kV AC test voltage

-  160° Max. short circuit temperature

-  Flame propagation test on single cable - EN 60332-1

APPLICATIONS

-  Low voltage household appliances under less mechanical compulsion used in low temperature applications.

TECHNICAL DATA

Cu/CR-PVC/CR-PVC

Nominal Cross Section mm ²	Overall Diameter mm approximately	Net Weight kg/km approximately	Conductor DC Resistanc at (20°C) max. ohm/kme	Current Carrying Capacity in	
				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	

H03V2V2-F / H05V2V2-F

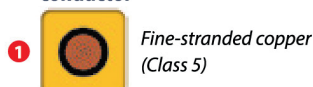
FLEXIBLE, HEAT RESISTING, MULTI-CORE CABLES



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

CONSTRUCTION

conductor



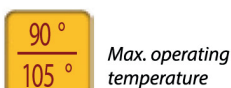
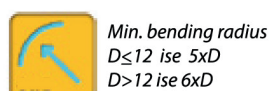
insulation



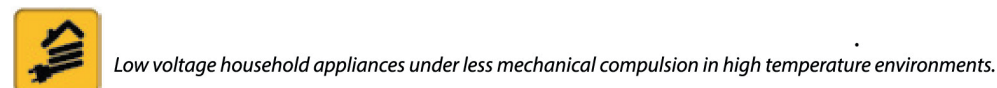
outer sheath



SPECIFICATIONS



APPLICATIONS



TECHNICAL DATA

Cu/HR-PVC/HR-PVC

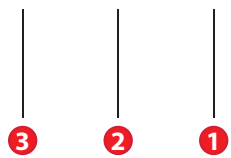
Nominal Cross Section mm ²	Overall Diameter mm approximately	Net Weight kg/km approximately	Conductor DC Resistance at (20°C) max. ohm/km	Current Carrying Capacity in	
				Air (A)	
H03V2V2-F (300/300 V) / 209Y					
2x0,50	5,0	37	39,0	3	
2x0,75	5,5	46	26,0	6	
3x0,50	5,3	43	39,0	3	
3x0,75	6,3	61	26,0	6	
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	

6181 Y (BS 6004:2012)

PVC DOUBLE INSULATED CABLES



STANDARDS
BS 6004:2012



CONSTRUCTION

conductor

1 Solid or stranded copper (Class 1 or Class 2)

Outer Sheath

3 PVC Polyvinyl chloride

insulation

2 Polivinil klorür
Polyvinyl chloride

SPECIFICATIONS

Min. bending radius

300/500 V Rated voltage U_0/U

70° Max. operating temperature

2 kV AC test voltage

160° Max. short circuit temperature

Flame propagation test on single cable - EN 60332-1

APPLICATIONS



Used in dry humid areas that there are no mechanical compulsion, under and on the plaster.

Kurşunsuz
Lead free

TECHNICAL DATA

Cu/PVC/PVC

Nominal Cross Section mm ²	Overall Diameter mm approximately	Net Weight kg/km approximately	Conductor DC Resistance at (20°C) max. ohm/km	Current Carrying Capacity in
				Air (A)
6181 Y				
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)

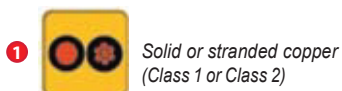
PVC INSULATED PVC SHEATHED FLAT TWIN CABLES

STANDARDS
BS 6004:2012



CONSTRUCTION

conductor



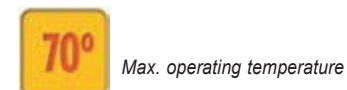
Outer Sheath



insulation



SPECIFICATIONS



APPLICATIONS



Used in dry humid areas that there are no mechanical compulsion, under and on the plaster.

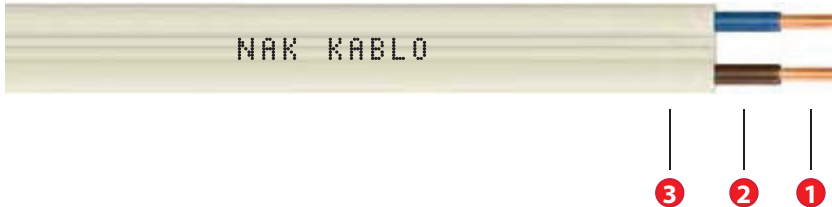


TECHNICAL DATA

Cu/PVC/PVC

Nominal Cross Section mm ²	Overall Diameter Min Dia. / Max Dia.	Net Weight kg/km approximately	Conductor DC Resistance at (20°C) max. ohm/km	Current Carrying Capacity in	
				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 INSULATED PVC SHEATED FLAT TWIN CABLES



STANDARDS
VDE 0250

CONSTRUCTION

conductor

1 Solid or stranded copper (Class 1 or Class 2)

Outer Sheath

3 PVC Polyvinyl chloride

insulation

2 PVC Polyvinyl chloride

SPECIFICATIONS

Min. bending radius

300/500 V Rated voltage U_0/U

70° Max. operating temperature

2 kV AC test voltage

160° Max. short circuit temperature

Flame propagation test on single cable - EN 60332-1

APPLICATIONS



Used in dry humid areas that there are no mechanical compulsion, under and on the plaster.

Lead free

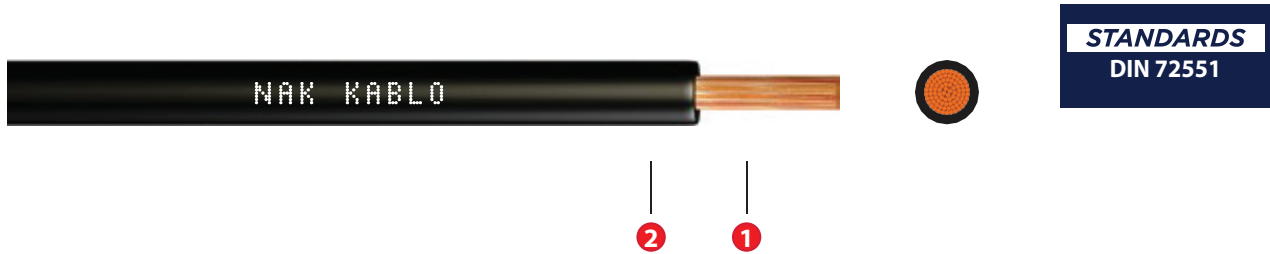
TECHNICAL DATA

Cu/PVC/PVC

Nominal Cross Section mm ²	Overall Diameter Min Dia. / Max Dia .	Net Weight kg/km approximately	Conductor DC Resistance at (20°C) max. ohm/km	Current Carrying Capacity in
				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

FLRY-B

SPECIAL PVCINSULATED AUTOMOTIVE CABLES



CONSTRUCTION

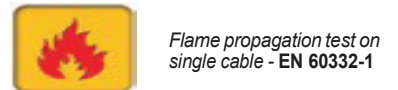
Conductor



Insulation



SPECIFICATIONS



Automotive Internal Wiring

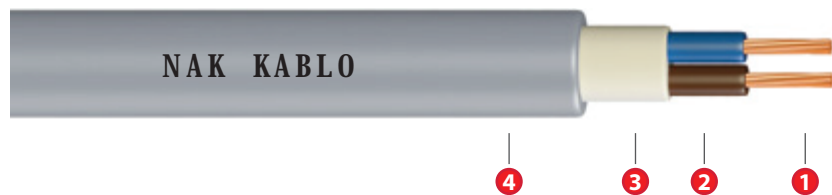
TECHNICAL DATA

Cu/PVC

Nominal CrossSection mm ²	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

(NVV) NYM

PVC INSULATED, MULTI-CORE INSTALLATION CABLES



STANDARDS
 TS 9759
 VDE 0250
 IEC 60227

CONSTRUCTION

conductor

1 Solid or stranded copper (Class 1 or Class 2)

3 PVC Polyvinyl chloride

insulation

2 PVC Polyvinyl chloride

4 PVC Polivinil klorür Polyvinyl chloride

SPECIFICATIONS

12 x D Min. bending radius

300/500 V Rated voltage U_0/U

70° Max. operating temperature

2 kV AC test voltage

160° Max. short circuit temperature

Flame propagation test on single cable - EN 60332-1

APPLICATIONS



Used in dry humid areas that there are no mechanical compulsion, under and on the plaster.

Lead free

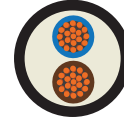
TECHNICAL DATA

Cu/PVC/PVC/PVC

Nominal Cross Section mm ²	Overall Diameter mm approximately	Net Weight kg/km approximately	Conductor DC Resistance at (20°C) max. ohm/km	Current Carrying Capacity in	
				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)

PVC INSULATED, LOW VOLTAGE POWER CABLES



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

CONSTRUCTION

conductor

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

3 PVC Polyvinyl chloride

12 x D Min. bending radius

0.6/1 kV Rated voltage U₀/U

insulation

2 PVC Polyvinyl chloride

4 PVC Polyvinyl chloride

70° Max. operating temperature

3.5 kV AC test voltage

160° Max. short circuit temperature

Flame propagation test on single cable - EN 60332-1

APPLICATIONS



Used in underground which there not much outer factors and inside cable conduits.

Pb Lead free

TECHNICAL DATA

Cu/PVC/PVC/PVC

Nominal Cross Section mm ²	Overall Diameter mm approximately	Net Weight kg/km approximately	Conductor DC Resistance at (20°C) max. ohm/km	Current Carrying Capacity in	
				Ground (A)	Air (A)
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

YXV (N2XY)

XLPE INSULATED, SINGLE CORE CABLES WITH COPPER CONDUCTOR



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

CONSTRUCTION

conductor

1 Solid or stranded copper (Class 1 or Class 2)

SPECIFICATIONS

15xD Min. bending radius

250° Max. short circuit temperature

3.5 kV AC test voltage

insulation

2 Cross linkable polyethylene

90° Max. operating temperature

0.6/1 kV Rated voltage U₀/U

Flame propagation test on single cable - EN 60332-1

filler

3 Polyvinyl chloride

outer sheath

4 Polyvinyl chloride

Kurşunsuz Lead free

APPLICATIONS



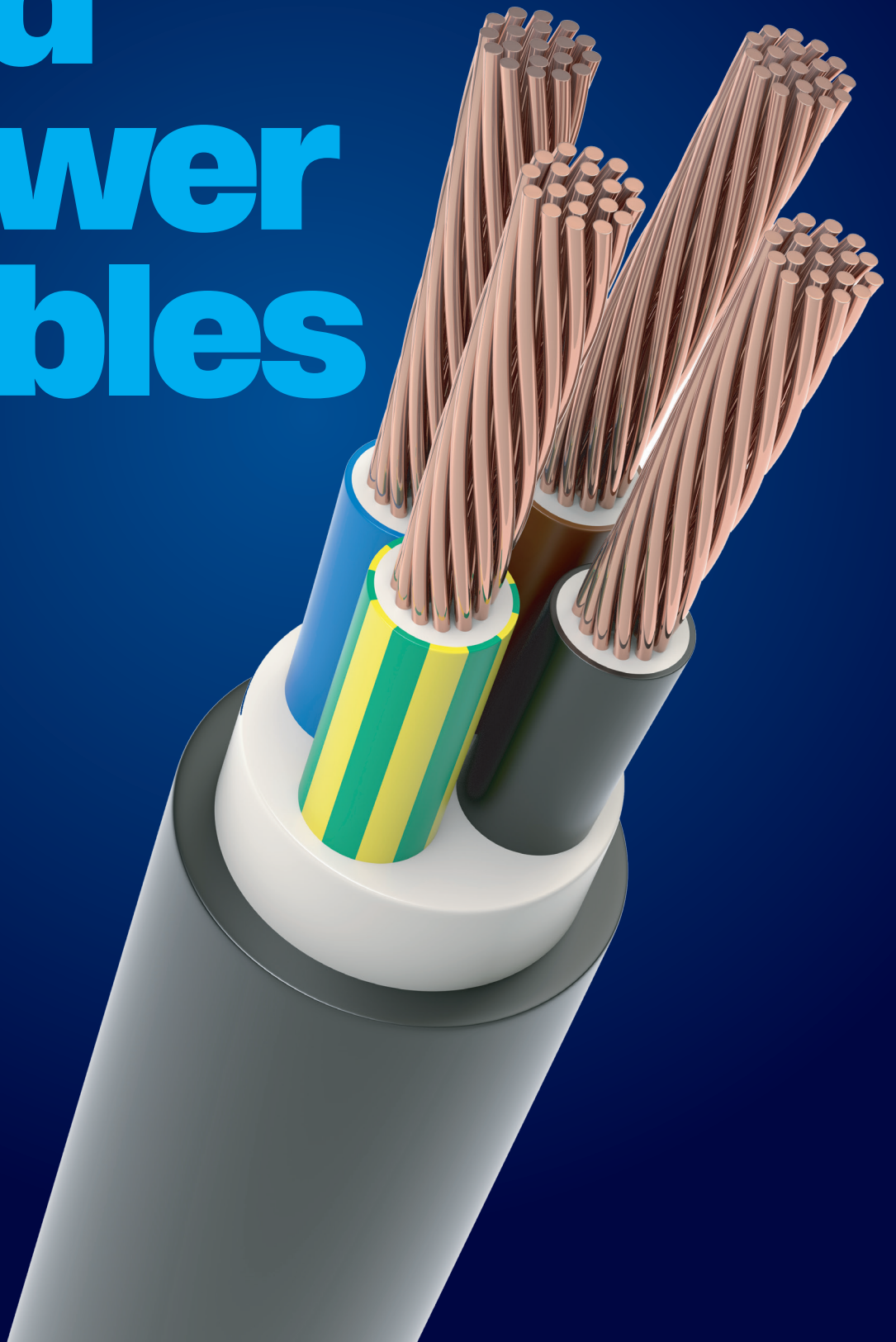
This cable having very low dielectric loss is used indoor, in cable ducts and in industrial plants or switching stations where mechanical damage is not anticipated. Suitable for comparatively high ambient temperature due to high maximum permissible conductor temperature.

TECHNICAL DATA

Cu/XLPE/PVC

Nominal Cross Section mm ²	Overall Diameter mm approximately	Net Weight kg/km approximately	Conductor DC Resistance at (20°C) max. ohm/km	Current Carrying Capacity in			
				Air (A)			
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



H05Z1-K / H07Z1-K

SINGLE CORE, HALOGEN FREE, FLAME RETARDANT CABLES



STANDARDS
TS EN 50525-3-31

CONSTRUCTION

conductor



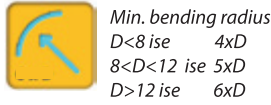
Fine-stranded copper
(Class 5)

insulation



Low smoke zero halogen

SPECIFICATIONS



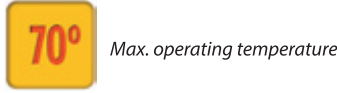
Min. bending radius
D<8 ise 4xD
8<D<12 ise 5xD
D>12 ise 6xD



300/500 V
450/750 V
Rated voltage Uo/U



Low smoke - EN 61034



70°
Max. operating temperature



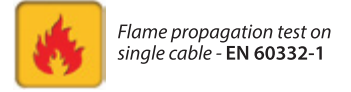
2 kV/2.5 kV
AC test voltage



Halogen free
EN 50525-1 - EN 50267



160°
Max. short circuit
temperature



Flame propagation test on
single cable - EN 60332-1

APPLICATIONS



Used in refineries, hotels, schools, tunnels, high constructions, hospitals, power plants, data processing centers, populated business centers where there is a risk of fire.

TECHNICAL DATA

Cu/LSZH

Nominal Cross Section mm ²	Overall Diameter mm approximately	Net Weight kg/km approximately	Conductor DC Resistance at (20°C) max. ohm/km	Akım Taşıma Kapasitesi Current Carrying Capacity in	
				Boruda (A) Conduit (A)	Havada (A) Air (A)
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

SINGLE CORE, HALOGEN FREE, FLAME RETARDANT CABLES



STANDARDS
TS EN 50525-3-31

CONSTRUCTION

conductor

- 1 Solid or stranded copper (Class 1 or Class 2)

insulation

- 2 Low smoke zero halogen

SPECIFICATIONS

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

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

Low smoke - EN 61034

70° Max. operating temperature

2 kV/2.5 kV AC test voltage

Halogen free
EN 50525-1 - EN 50267

160° Max. short circuit temperature

Flame propagation test on single cable - EN 60332-1

APPLICATIONS



Used in refineries, hotels, schools, tunnels, high constructions, hospitals, power plants, data processing centers, populated business centers where there is a risk of fire.

TECHNICAL DATA

Cu/LSZH

Nominal Cross Section mm ²	Overall Diameter mm approximately	Net Weight kg/km approximately	Conductor DC Resistance at (20°C) max. ohm/km	Current Carrying Capacity in	
				Conduit (A)	Air (A)
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

H05Z-K / H07Z-K

HALOGEN FREE, FLAME RETARDANT, HEAT RESISTANT, FLEXIBLE, SINGLE CORE CABLES



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

CONSTRUCTION

conductor

- 1 Fine-stranded copper (Class 5)

insulation

- 2 XL-LSZH
Low smoke zero halogen cross linkable

SPECIFICATIONS

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

90°
Max. operating temperature

250°
Max. short circuit temperature

300/500 V
450/750 V
Rated voltage U_o/U

2kV/2.5kV
AC test voltage

Low smoke - EN 61034

Halogen free
EN 50525-1 - EN 50267

Flame propagation test on single cable EN 60332-1

APPLICATIONS



Installation in surface mounted or embedded conduits or similar closed systems. Low level of smoke emission and corrosive gases in case of fire.

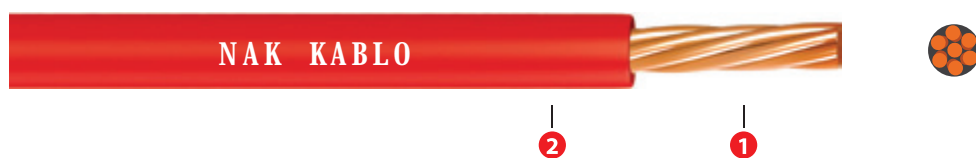
TECHNICAL DATA

Cu/XL-LSZH

Nominal Cross Section mm ²	Overall Diameter mm approximately	Net Weight kg/km approximately	Conductor DC Resistance at (20°C) max. ohm/km	Current Carrying Capacity in	
				Conduit (A)	Air (A)
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

H07Z-U / H07Z-R

HALOGEN FREE, FLAME RETARDANT, HEAT RESISTANT, SINGLE CORE CABLES



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

CONSTRUCTION

conductor

1



Solid or stranded copper
(Class 1 or Class 2)

insulation

2



Low smoke zero halogen cross linkable

SPECIFICATIONS



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



Max. operating temperature



Max. short circuit temperature



Rated voltage U₀/U



AC test voltage



Low smoke - EN 61034



Halogen free
EN 50525-1 - EN 50267



Flame propagation test on single cable - EN 60332-1

APPLICATIONS



Installation in surface mounted or embedded conduits or similar closed systems. Low level of smoke emission and corrosive gases in case of fire.

TECHNICAL DATA

Cu/XL-LSZH

Nominal Cross Section mm ²	Overall Diameter mm approximately	Net Weight kg/km approximately	Conductor DC Resistance at (20°C) max. ohm/km	Current Carrying Capacity in	
				Conduit (A)	Air (A)
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

H03Z1Z1-F/H05Z1Z1-F

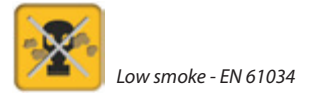
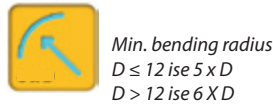
HALOGEN FREE, FLAME RETARDANT, MULTI-CORE FLEXIBLE CABLES



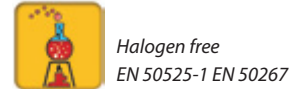
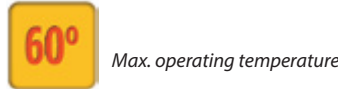
STANDARDS
TS EN 50525-3-11

CONSTRUCTION

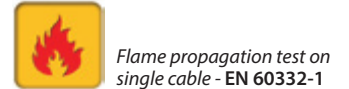
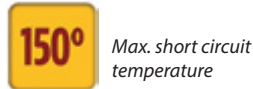
conductor



insulation



outer sheath



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.

TECHNICAL DATA

Cu/LSZH/LSZH

Nominal Cross Section mm ²	Overall Diameter mm approximately	Net Weight kg/km approximately	Conductor DC Resistance at (20°C) max. ohm/km	Current Carrying Capacity in
				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)

XLPE INSULATED LSZH SHEATED FLAT TWIN CABLES



STANDARDS
BS 7211:2012



CONSTRUCTION

SPECIFICATIONS

conductor	Outer Sheath			
1 Solid or stranded copper (Class 1 or Class 2)	3 Low Smoke Zero Halogen	Min. bending radius	300/500 V	Rated voltage Uo/U
2 Cross Linked Polyethylene	Halogen free EN 50525-1 - EN 50267	90°	2 kV	AC test voltage
Low smoke - EN 61034		250°	Flame propagation test on single cable - EN 60332-1	Max. short circuit temperature

APPLICATIONS



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

TECHNICAL DATA

Cu/XLPE/LSZH

Nominal Kesit m 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

052XZ1-F

XLPE INSULATION, HALOGEN FREE, MULTI-CORE FLEXIBLE CABLES



STANDARDS
TSE K 176



CONSTRUCTION

conductor

1 Fine-stranded copper (Class 5)



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



Rated voltage U_0/U



Low smoke - EN 61034

insulation

2 Cross linkable polyethylene



Max. operating temperature



AC test voltage



Halogen free
EN 50525-1 - EN 50267

outer sheat

3 Low smoke zero halogen



Max. short circuit temperature



Flame retardant test of Bunched cables
EN 60332-3-24 Cat.C

APPLICATIONS



Used in refineries, hotels, schools, tunnels, high constructions, hospitals, power plants, data processing centers, populated business centers where there is a risk of fire.

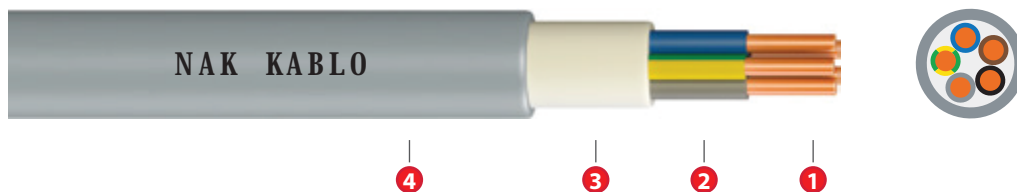
TECHNICAL DATA

Cu/XLPE/LSZH

Nominal Cross Section mm ²	Overall Diameter mm approximately	Net Weight kg/km approximately	Conductor DC Resistance at (20°C) max. ohm/km	Current Carrying Capacity in
				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

NHXMH-O / NHXMH-J

HALOGEN FREE, FLAME RETARDANT MULTI-CORE CABLES



STANDARDS
VDE 0250-214
BS 7211:2012
TSEK

CONSTRUCTION

conductor

1 Solid or stranded copper (Class 1 or Class 2)

insulation

2 Cross linkable polyethylene

filler

3 Halogen free flame retardant

outer sheath

4 Halogen free flame retardant

SPECIFICATIONS

12 x D Min. bending radius

2 kV AC test voltage

90° Max. operating temperature

Low smoke - EN 61034

250° Max. short circuit temperature

Halogen free
EN 50525-1 - EN 50267

300/500 V Rated voltage U₀/U

Flame retardant test of bunched cables
EN 60332-3-24 Cat. C

APPLICATIONS



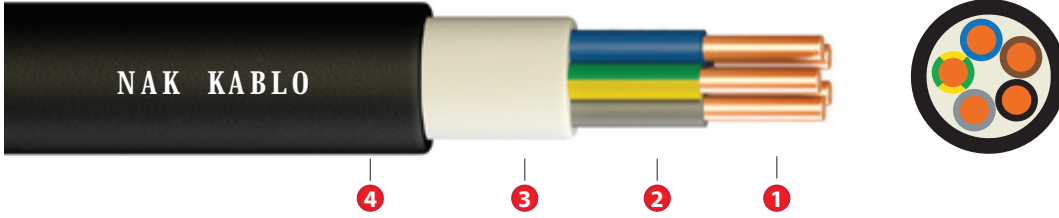
Used in refineries, hotels, schools, tunnels, high constructions, hospitals, power plants, data processing centers, populated business centers where there is a risk of fire.

TECHNICAL DATA

Cu/XLPE/HFFR/HFFR

Nominal Cross Section mm ²	Overall Diameter mm approximately	Net Weight kg/km approximately	Conductor DC Resistance at (20°C) max. ohm/km	Current Carrying Capacity in	
				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	

HALOGEN FREE, FLAME RETARDANT MULTI-CORE CABLES



STANDARDS

VDE 0276-604
TS HD 604-S1

CONSTRUCTION

- 1 conductor**
Solid or stranded copper (Class 1 or Class 2)
- 2 insulation**
XLPE Cross linkable polyethylene
- 3 filler**
HFFR Halogen free flame retardant
- 4 outer sheath**
HFFR Halogen free flame retardant

SPECIFICATIONS

- 12xD** Min. bending radius
<95 mm² ise 15xD
≥95 mm² ise 18xD
- 90°** Max. operating temperature
- 250°** Max. short circuit temperature
- 0.6/1kV** Rated voltage U₀/U
- 3.5 kV** AC test voltage
- Low smoke - EN 61034**
- Halogen free**
EN 50525-1 - EN 50267
- Flame retardant test of bunched cables**
EN 60332-3-24 Cat. C

APPLICATIONS



Used in refineries, hotels, schools, tunnels, high constructions, hospitals, power plants, data processing centers, populated business centers where there is a risk of fire.

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	
				Toprakta (A) Ground (A)	Havada (A) Air (A)
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