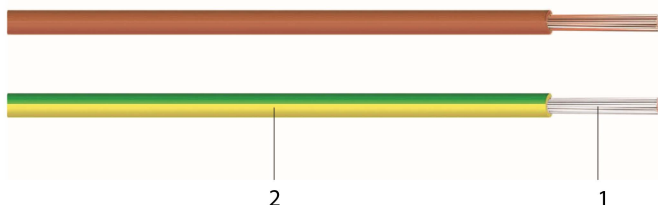


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V03S-K, V05S-K, V07S-K (SiF, SiFF)



Technical specification: PN-KV-057-99

Rated voltage: 300/300 V (V03S-K)
300/500 V (V05S-K)
450/750 V (V07S-K)

Test voltage: 2 kV (V03S-K, V05S-K)
2,5 kV (V07S-K)

Temperature range for handling: -55 °C to +180 °C *)

Colour of insulation: black (BK), brown (BN)
blue (BU), red (RD),
green/yellow (GNYE),
natural (NC), grey (GY),
orange (OR), violet (VT)
Other colours on request.

Deliveries: coils, drums, reels

Construction:

1. Stranded tinned copper conductor (or only plain conductor - verzion nec.), class 5 acc. to ČSN EN 60228 (on request class 6 - applies to SiFF)
2. Silicone rubber insulation

*) It is possible to produce cable with temperature range for handling from -55 to +220°C.

APPLICATION

For instalation in machines and equipment with increased thermal stress, for distribution in movable equipment, distribution in boards, switchboards and switching stations in environments with increased temperature stress. The insulation is resistant to ozone, corona, UV radiation, fungi, diluted acids and alkalis.

Type of conductor	Nominal cross-section core (mm ²)	Shape of core	Nominal thickness of insulation (mm)	Average overall diameter (mm)	Rated current *) (A)	Time heating constanta (s)	Content of Cu (kg/km)
V03S-K	0,35	RM	0,5	1,7 - 2,2	16	24	3,4
	0,5	RM	0,5	1,9 - 2,3	19	27	4,9
	0,75	RM	0,5	2,0 - 2,5	24	30	7,4
	1	RM	0,5	2,2 - 2,7	28	34	9,8
	1,5	RM	0,5	2,4 - 3,0	35	44	14,7
V05S-K	0,35	RM	0,6	1,9 - 2,5	16	24	3,4
	0,5	RM	0,6	2,1 - 2,6	19	27	4,9
	0,75	RM	0,6	2,2 - 2,8	24	30	7,4
	1	RM	0,6	2,4 - 3,0	28	34	9,8
	1,5	RM	0,6	2,6 - 3,2	35	44	14,7
	2,5	RM	0,7	3,2 - 4,0	48	59	25

Interconnecting wires insulated with silicone rubber

**V03S-K, V05S-K, V07S-K
(SiF, SiFF)**

Type of conductor	Nominal cross-section core (mm ²)	Shape of core	Nominal thickness of insulation (mm)	Average overall diameter (mm)	Rated current *) (A)	Time heating constanta (s)	Content of Cu (kg/km)
V07S-K	1,5	RM	0,7	2,8 - 3,5	35	44	14,7
	2,5	RM	0,8	3,4 - 4,3	48	59	25
	4	RM	0,8	3,9 - 4,9	66	77	39
	6	RM	0,8	4,4 - 5,6	85	85	59
	10	RM	1	6,4 - 8,0	120	120	98
	16	RM	1	7,4 - 9,2	162	150	157
	25	RM	1,2	9,3 - 11,6	215	195	245
	35	RM	1,2	10,6 - 13,2	272	230	343
	50	RM	1,4	12,5 - 15,6	356	290	490
	70	RM	1,4	14,3 - 17,9	431	335	686
	95	RM	1,6	16,9 - 21,1	527	420	931
	120	RM	1,6	18,8 - 23,8	622	465	1176
150	RM	1,8	19,8 - 24,7	723	545	1470	

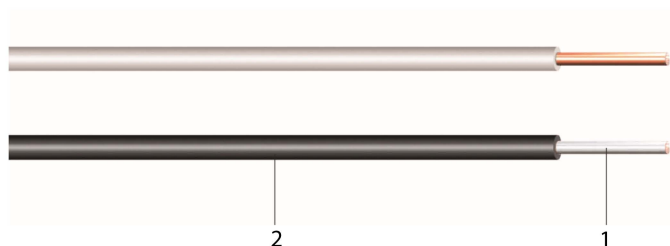
*) Values of current carrying capacity in air at +90°C.

Numerical data are not guaranteed, and they are subject to changes without notification.

Influence on the environment: The product does not have any negative influence on the environment.

Interconnecting wires insulated with silicone rubber

V03S-U, V05S-U, V07S-U (SiD)



Construction:

1. Solid tinned copper conductor (or only plain conductor - version nec.), class 1 acc. to ČSN EN 60228
2. Silicone rubber insulation

Technical specification: PN-KV-057-99

Rated voltage: 300/300 V (V03S-U)
300/500 V (V05S-U)
450/750 V (V07S-U)

Test voltage: 2 kV (V03S-U, V05S-U)
2,5 kV (V07S-U)

Temperature range for handling: -55 °C to +180 °C *)

Colour of insulation: black (BK), brown (BN), blue (BU), red (RD), green/yellow (GNYE), natural (NC), grey (GY), orange (OR), violet (VT)
Other colours on request.

Deliveries: coils, drums, reels

*) It is possible to produce cable with temperature range for handling from -55 to +220°C.

APPLICATION

For power distribution in environments with increased temperature or chemical stress, for distribution in machines and equipment, in switchboards, switchboards and switching stations. The insulation is resistant to ozone, corona, UV radiation, fungi and diluted acids and alkalis.

Type of conductor	Nominal cross-section core (mm ²)	Shape of core	Nominal thickness of insulation (mm)	Average overall diameter (mm)	Rated current *) (A)	Time heating constanta (s)	Content of Cu (kg/km)
V03S-U	0,5	RE	0,5	1,7 - 2,2	19	27	4,9
	0,75	RE	0,5	1,9 - 2,3	24	31	7,4
	1	RE	0,5	2,0 - 2,5	28	34	9,8
	1,5	RE	0,5	2,3 - 2,8	37	43	14,7
V05S-U	0,5	RE	0,6	1,9 - 2,4	19	27	4,9
	0,75	RE	0,6	2,1 - 2,6	24	31	7,4
	1	RE	0,6	2,2 - 2,8	28	34	9,8
	1,5	RE	0,6	2,4 - 3,1	37	43	14,7
	2,5	RE	0,7	3,0 - 3,8	49	60	25

Interconnecting wires insulated with silicone rubber

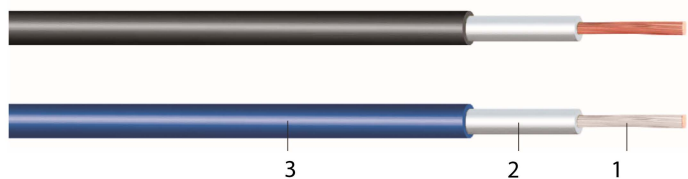
V03S-U, V05S-U, V07S-U (SiD)

Type of conductor	Nominal cross-section core (mm ²)	Shape of core	Nominal thickness of insulation (mm)	Average overall diameter (mm)	Rated current *) (A)	Time heating constanta (s)	Content of Cu (kg/km)
V07S-U	1,5	RE	0,7	2,6 - 3,3	37	43	14,7
	2,5	RE	0,8	3,2 - 4,0	49	60	25
	4	RE	0,8	3,6 - 4,6	65	74	39
	6	RE	0,8	4,1 - 5,2	83	90	59
	10	RE	1	5,3 - 6,6	117	125	98

*) Values of current carrying capacity in air at +90°C.

Numerical data are not guaranteed, and they are subject to changes without notification.

Influence on the environment: The product does not have any negative influence on the environment.



Technical specification: PN-KV-057-99

Rated voltage: 300/500 V (V05S2-K)
450/750 V (V07S2-K)

Test voltage: 4 kV

Temperature range for handling: -55 °C to +180 °C *)

Colour of basic insulation: natural colour (NC)

Colour of supplementary insulation:
black (BK), brown (BN)
blue (BU), red (RD),
green/yellow (GNYE),
natural (NC), grey (GY),
orange (OR), violet (VT)
Other colours on request.

Deliveries: coils, drums, reels

Construction:

1. Stranded tinned copper conductor (or only plain conductor - verzion nec.), class 5 acc. to ČSN EN 60228
2. Silicone rubber basic insulation
3. Silicone rubber supplementary insulation

*) It is possible to produce cable with temperature range for handling from -55 to +220°C.

APPLICATION

For power distribution in environments with increased temperature or chemical stress, for distribution in moveable equipment, distribution boards, switchboards and switching stations with increased temperature stress. The insulation is resistant to ozone, corona, UV radiation, fungi and diluted acids and alkalis.

Type of conductor	Nominal cross-section core (mm ²)	Nominal thickness of basic insulation (mm)	Nominal thickness of supplementary insulation (mm)	Average overall diameter of basic insulation (mm)	Average overall diameter of supplementary insulation (mm)	Rated current *) (A)
V05S2-K	0,35	0,6	0,4	1,9 - 2,3	2,7 - 3,2	16
	0,5	0,6	0,4	2,1 - 2,5	2,8 - 3,4	19
	0,75	0,6	0,4	2,2 - 2,7	3,0 - 3,6	24
	1	0,6	0,4	2,4 - 2,8	3,1 - 3,8	28
V07S2-K	1,5	0,7	0,4	2,8 - 3,4	3,6 - 4,3	35
	2,5	0,8	0,4	3,4 - 4,1	4,2 - 5,0	48

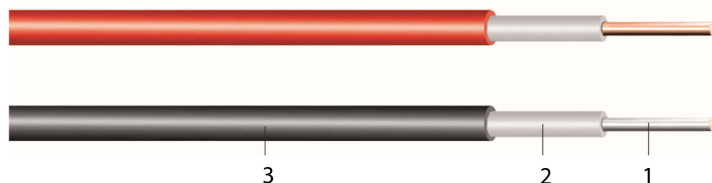
*) Values of current carrying capacity in air at +90°C.

Numerical data are not guaranteed, and they are subject to changes without notification.

Influence on the environment: The product does not have any negative influence on the environment.

Interconnecting wires insulated with silicone rubber

V05S2-U



Technical specification: PN-KV-057-99

Rated voltage: 300/500 V

Test voltage: 4 kV

Temperature range for handling: -55 °C to +180 °C *)

Colour of basic insulation: natural (NC)

Colour of supplementary insulation:
 black (BK), brown (BN)
 blue (BU), red (RD),
 green/yellow (GNYE),
 natural (NC), grey (GY),
 orange (OR), violet (VT)
 Other colours on request.

Deliveries: coils, drums, reels

Construction:

1. Solid tinned copper conductor (or only plain conductor - verzion nec.), class 1 acc. to ČSN EN 60228
2. Silicone rubber basic insulation
3. Silicone rubber supplementary insulation

*) It is possible to produce cable with temperature range for handling from -55 to +220°C.

APPLICATION

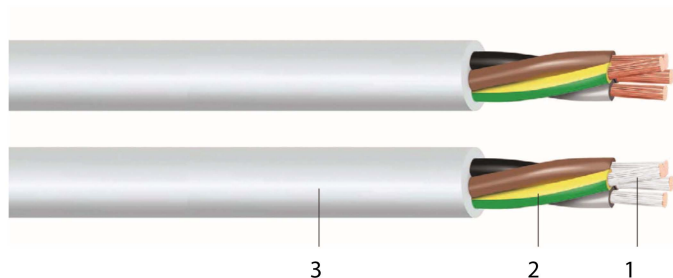
For power distribution in environments with increased temperature or chemical stress, for distribution in moveable equipment, distribution boards, switchboards and switching stations with increased temperature stress. The insulation is resistant to ozone, corona, UV radiation, fungi and diluted acids and alkalis.

Type of conductor	Nominal cross-section core (mm ²)	Nominal thickness of basic insulation (mm)	Nominal thickness of supplementary insulation (mm)	Average overall diameter of basic insulation (mm)	Average overall diameter of supplementary insulation (mm)	Rated current *) (A)
V05S2-U	0,75	0,6	0,5	2,1 - 2,6	3,0 - 3,8	24

*) Values of current carrying capacity in air at +90°C.

Numerical data are not guaranteed, and they are subject to changes without notification.

Influence on the environment: The product does not have any negative influence on the environment.



Technical specification: PN-KV-057-99

Rated voltage: 300/300 V (V03SS-F)
300/500 V (V05SS-F)

Test voltage: 2 kV

Temperature range for handling: -55 °C to +180 °C *)

Colour of insulation: acc. to HD 308 S2,
ČSN 33 0166 ed.2

Colour of sheath: black (BK), natural (NC)
Other colours on request.

Deliveries: coils, drums, reels

Construction:

1. Stranded tinned copper conductors (or only plain conductor - verzion nec.), class 5 acc. to ČSN EN 60228
2. Silicone rubber insulation
3. Silicone rubber sheath.
Cores twisted together.

*) It is possible to produce cable with temperature range for handling from -55 to +220°C.

APPLICATION

The cables are designed for flexible connections to appliances and equipment in environments with thermal stress, for underground lines in areas with higher thermal stress. Chlorinated hydrocarbons cause swelling and reduced mechanical and electrical properties. It is resistant to ozone, UV radiation, fungi, diluted acids and alkalis.

Type	No. of cores x nominal cross-section of cores (mm ²)	Shape of core	Nominal thickness of insulation (mm)	Nominal thickness of sheath (mm)	Average overall diameter (mm)	Rated current *) (A)	Time heating constanta (s)	Content of Cu (kg/km)
V03SS-F	2 x 0,35	RF	0,5	0,6	4,3 - 5,8	13,5	120	6,9
	2 x 0,5	RF	0,5	0,6	4,6 - 6,1	16	135	9,8
	2 x 0,75	RF	0,5	0,7	5,1 - 6,7	21	150	14,7
	2 x 1	RF	0,5	0,7	5,4 - 7,1	24	170	19,6
	2 x 1,5	RF	0,5	0,7	5,8 - 7,7	31	210	2,9
	3 x 0,35	RF	0,5	0,6	4,6 - 6,1	13,5	120	10,3
	3 x 0,5	RF	0,5	0,6	4,9 - 6,5	16	135	14,7
	3 x 0,75	RF	0,5	0,7	5,4 - 7,1	21	150	22
	3 x 1	RF	0,5	0,7	5,7 - 7,5	24	170	29
	3 x 1,5	RF	0,5	0,8	6,4 - 8,4	31	210	44
	4 x 0,5	RF	0,5	0,6	4,4 x 7,1	13,5	135	19,6
	4 x 0,75	RF	0,5	0,7	5,9 x 7,8	17,5	140	29
	4 x 1	RF	0,5	0,8	6,5 x 8,5	21	150	39
	4 x 1,5	RF	0,5	0,9	7,3 - 9,4	26	185	59

Flexible power cables with silicone rubber insulation

V03SS-F, V05SS-F (SIHF)

Type	No. of cores x nominal cross-section of cores (mm ²)	Shape of core	Nominal thickness of insulation (mm)	Nominal thickness of sheath (mm)	Average overall diameter (mm)	Rated current *) (A)	Time heating constant (s)	Content of Cu (kg/km)
V03SS-F	5 x 0,5	RF	0,5	0,6	5,9 - 7,8	13,5	135	25
	5 x 0,75	RF	0,5	0,8	6,7 - 8,7	17,5	140	37
	5 x 1	RF	0,5	0,8	7,1 - 9,2	21	150	49
	5 x 1,5	RF	0,5	0,9	7,9 - 10,3	26	185	74
	7 x 0,5	RF	0,5	0,7	6,7 - 8,7	12	130	34
	7 x 0,75	RF	0,5	0,8	7,3 - 9,2	16	135	51
	7 x 1	RF	0,5	0,9	7,9 - 10,3	20	145	69
	7 x 1,5	RF	0,5	1	8,8 - 11,4	24	175	103
	2 x 0,35	RF	0,6	0,6	4,7 - 6,2	13,5	120	6,9
V05SS-F	2 x 0,5	RF	0,6	0,6	5,0 - 6,6	16	135	9,8
	2 x 0,75	RF	0,6	0,8	5,7 - 7,4	21	150	14,7
	2 x 1	RF	0,6	0,8	5,9 - 7,8	24	170	19,6
	2 x 1,5	RF	0,6	0,8	6,4 - 8,4	31	210	29
	2 x 2,5	RF	0,7	1	8,1 - 10,4	42	285	49
	2 x 4	RF	0,8	1,1	9,7 - 12,5	57	380	78
	3 x 0,35	RF	0,6	0,6	5,0 - 6,6	135	120	10,3
	3 x 0,5	RF	0,6	0,6	5,3 - 7,0	16	135	14,7
	3 x 0,75	RF	0,6	0,8	6,0 - 7,9	21	150	22
	3 x 1	RF	0,6	0,8	6,3 - 8,3	24	170	29
	3 x 1,5	RF	0,6	0,9	7,0 - 9,2	31	210	44
	3 x 2,5	RF	0,7	1,1	8,8 - 11,3	42	285	74
	3 x 4	RF	0,8	1,2	10,5 - 13,5	57	380	118
	4 x 0,5	RF	0,6	0,7	6,0 - 7,9	13,5	135	19,6
	4 x 0,75	RF	0,6	0,8	6,6 - 8,6	17,5	140	29
	4 x 1	RF	0,6	0,9	7,2 - 9,4	21	150	39
	4 x 1,5	RF	0,6	1,1	7,9 - 10,2	26	185	59
	4 x 2,5	RF	0,7	1,1	10,3 - 12,4	36	250	98
	4 x 4	RF	0,8	1,2	11,5 - 14,8	48	340	157
	5 x 0,5	RF	0,6	0,7	6,6 - 8,6	13,5	135	25
	5 x 0,75	RF	0,6	0,9	7,4 - 9,6	17,5	140	37
	5 x 1	RF	0,6	0,9	7,8 - 10,1	21	150	49
	5 x 1,5	RF	0,6	1	8,6 - 11,1	26	185	74
	5 x 2,5	RF	0,7	1,1	10,5 - 13,5	36	250	123
	5 x 4	RF	0,8	1,3	12,8 - 16,4	48	340	196
	7 x 0,5	RF	0,6	0,7	7,2 - 9,4	12	130	34
	7 x 0,75	RF	0,6	0,9	8,1 - 10,4	16	135	51
	7 x 1	RF	0,6	1	8,7 - 11,2	20	145	69
	7 x 1,5	RF	0,6	1,1	9,6 - 12,4	24	175	103
7 x 2,5	RF	0,7	1,2	11,7 - 14,9	34	230	172	

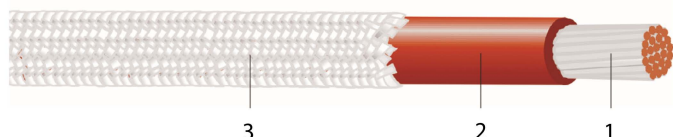
*) Values of current carrying capacity in air at +90°C.

Numerical data are not guaranteed, and they are subject to changes without notification.

Influence on the environment: The product does not have any negative influence on the environment.

Interconnecting wires insulated with silicone rubber

V03SJ-K, V05SJ-K, V07SJ-K (SiF-GL)



Technical specification: PN-KV-057-99

Rated voltage: 300/300 V (V03SJ-K)
300/500 V (V05SJ-K)
450/750 V (V07SJ-K)

Test voltage: 2 kV (V03SJ-K, V05SJ-K)
2,5 kV (V07SJ-K)

Temperature range for handling: -55 °C to +180 °C *)

Colour of insulation: natural (NC)
Other colours on request.

Deliveries: coils, drums, reels

Construction:

1. Stranded tinned copper conductor or only plain conductor - verzion nec.), class 5 acc. to ČSN EN 60228
2. Silicone rubber insulation
3. Protective cover of painted braiding of glass silk

*) It is possible to produce cable with temperature range for handling from -55 to +220°C.

APPLICATION

The cables are designed for installation to appliances and equipment in environments with thermal stress, for installation in moveable equipments in distribution boards, switchboards and switching stations with higher thermal stress. Cables are not resistant to flame spreading, to fungi and to humidity.

Type of conductor	Nominal cross-section core (mm ²)	Shape of core	Nominal thickness of insulation (mm)	Average overall diameter (mm)	Rated current *) (A)	Time heating constanta (s)	Content of Cu (kg/km)
V03SJ-K	0,35	RM	0,5	2,3 - 2,9	16	60	3,4
	0,5	RM	0,5	2,5 - 3,1	19	78	4,9
	0,75	RM	0,5	2,6 - 3,3	24	82	7,4
	1	RM	0,5	2,8 - 3,4	28	86	9,8
	1,5	RM	0,5	3,0 - 3,7	36	100	14,7
V05SJ-K	0,35	RM	0,6	2,5 - 3,1	16	60	3,4
	0,5	RM	0,6	2,7 3,3	19	78	4,9
	0,75	RM	0,6	2,8 - 3,5	24	82	7,4
	1	RM	0,6	3,0 - 3,7	28	86	9,8
	1,5	RM	0,6	3,2 - 4,0	36	100	14,7
	2,5	RM	0,7	3,8 - 4,7	49	120	25

Interconnecting wires insulated with silicone rubber

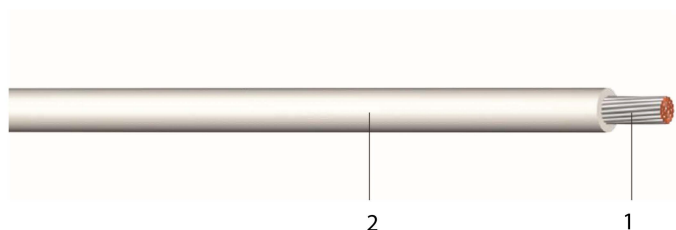
V03SJ-K, V05SJ-K, V07SJ-K (SiF-GL)

Type of conductor	Nominal cross-section core (mm ²)	Shape of core	Nominal thickness of insulation (mm)	Average overall diameter (mm)	Rated current *) (A)	Time heating constanta (s)	Content of Cu (kg/km)
V07SJ-K	1,5	RM	0,7	3,4 - 4,2	36	100	14,7
	2,5	RM	0,8	4,0 - 5,0	49	120	25
	4	RM	0,8	4,5 - 5,6	67	135	39
	6	RM	0,8	5,0 - 6,3	85	170	59
	10	RM	1	7,0 - 8,8	118	215	98
	16	RM	1	8,0 - 9,5	160	250	157
	25	RM	1,2	9,9 - 12,4	212	300	245
	35	RM	1,2	11,2 - 13,9	274	330	343
	50	RM	1,4	13,1 - 16,3	350	415	490
	70	RM	1,4	14,9 - 18,6	423	460	686
	95	RM	1,6	17,5 - 21,8	517	560	931
	120	RM	1,6	19,4 - 24,2	610	620	1176
150	RM	1,8	20,4 - 25,4	709	710	1470	

*) Values of current carrying capacity in air at +90°C.

Numerical data are not guaranteed, and they are subject to changes without notification.

Influence on the environment: The product does not have any negative influence on the environment.



Technical specification:	PN-KV-057-99
Rated voltage:	2/3,6 kV (50Hz)
Test voltage:	6 kV (50Hz)
Temperature range for handling:	-55 °C to +180 °C *)
Colour of insulation:	natural (NC) Other colours on request.
Deliveries:	coils, drums, reels

Construction:

1. Stranded tinned copper conductor class 5 acc. to ČSN EN 60228
2. Silicone rubber insulation
Identical replacement of cable CSA 2/3,6

APPLICATION

For the distribution of electrical energy in high-voltage equipment, under the simultaneous influence of higher operating temperatures or heavy-duty conditions. The insulation is resistant to ozone, corona, UV radiation, moulds, diluted acids and alkalis. Chlorinated aromatic hydrocarbons cause for swelling and reduced mechanical and electrical properties.

Nominal cross-section of core (mm ²)	Nominal thickness of insulation (mm)	Maximal overall diameter (mm)	Rated current *) (A)	Informative weight (kg/km)	Informative despatch length (m)
0,8	1,6	4,9	25	26	100
1	1,8	5,6	30	33	100
1,5	1,8	6	37	40	100
2,5	1,8	6,4	50	52	100
4	1,8	7,4	68	70	100
6	1,8	8,2	87	98	100
10	2	9,6	121	148	100
16	2	11	161	219	100
25	2,2	13	211	313	50
35	2,2	14,5	267	429	50
50	2,4	17,5	349	621	50
70	2,4	19,5	419	793	25
95	2,6	21,5	513	1068	25
120	2,6	22,5	610	1278	25

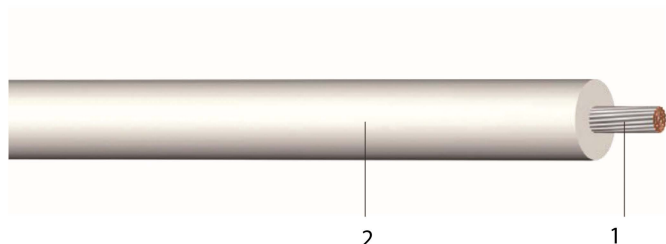
*) Values of current carrying capacity in air at +90°C.

Numerical data are not guaranteed, and they are subject to changes without notification.

Influence on the environment: The product does not have any negative influence on the environment.

Interconnecting single-core high voltage wire

V72S-K (SiFZ)



Technical specification:	PN-KV-057-99
Rated voltage:	4,1/7,2 kV (50Hz)
Test voltage:	10 kV (50Hz)
Temperature range for handling:	-55 °C to +180 °C *)
Colour of insulation:	natural (NC) Other colours on request.
Deliveries:	coils, drums, reels

Construction:

1. Stranded tinned copper conductor
class 5 acc. to ČSN EN 60228
2. Silicone rubber insulation
Identical replacement of cable CSA 4,1/7,2

APPLICATION

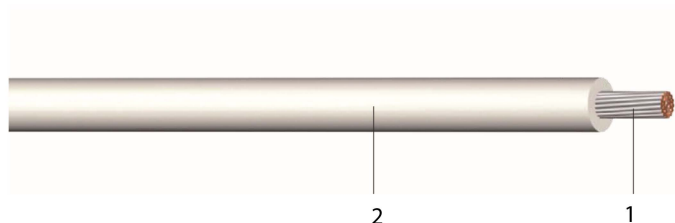
For the distribution of electrical energy in high-voltage equipment, under the simultaneous influence of higher operating temperatures or heavy-duty conditions. The insulation is resistant to ozone, corona, UV radiation, moulds, diluted acids and alkalis. Chlorinated aromatic hydrocarbons cause for swelling and reduced mechanical and electrical properties.

Nominal cross-section of core (mm ²)	Nominal thickness of insulation (mm)	Maximal overall diameter (mm)	Rated current *) (A)	Informative weight (kg/km)	Informative despatch length (m)
2,5	3	9	53	83	100
4	3	10	72	105	100
6	3	11	92	142	100
10	3,2	12,5	126	194	100
16	3,2	13,5	168	273	100
25	3,2	15	218	364	50
35	3,2	16,5	275	486	50
50	3,4	19,5	357	689	50
70	3,4	21,5	429	868	25
95	3,4	23,5	526	1134	25

*) Values of current carrying capacity in air at +90°C.

Numerical data are not guaranteed, and they are subject to changes without notification.

Influence on the environment: The product does not have any negative influence on the environment.



Technical specification:	TP 12-41 MHS 332/80
Rated voltage:	6 kV (50Hz)
Test voltage:	10 kV (50Hz)
Temperature range for handling:	-55 °C to +180 °C *)
Colour of insulation:	natural (NC) Other colours on request.
Deliveries:	coils, drums, reels

Construction:

1. Stranded tinned copper conductor
2. Silicone rubber insulation

APPLICATION

Internal wiring in equipment for tubular discharge lamps. The cable is resistant to moulds and UV radiation, but it is not resistant to flame spreading.

Nominal cross-section of core (mm ²)	Maximal resistance of core at 20°C (Ω/km)	Maximal overall diameter (mm)	Rated current *) (A)	Informative weight (kg/km)	Informative despatch length (m)
1,34	14,3	6,8	33	54	100

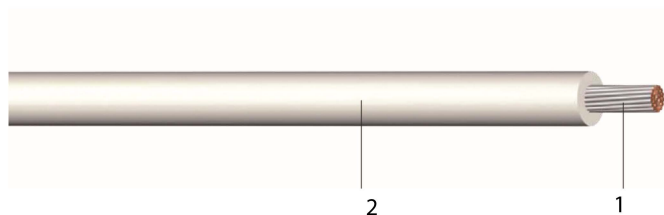
*) Values of current carrying capacity in air at +90°C.

Numerical data are not guaranteed, and they are subject to changes without notification.

Influence on the environment: The product does not have any negative influence on the environment.

Interconnecting single-core high voltage wire

CSD 0,35-10



Technical specification:	TP 12-41 MHS 332/80
Rated voltage:	10 kV _{ss}
Test voltage:	19 kV _{ss}
Temperature range for handling:	-55 °C to +180 °C *)
Colour of insulation:	natural (NC) Other colours on request.
Deliveries:	coils, drums, reels

Construction:

1. Stranded tinned copper conductor
2. Silicone rubber insulation

APPLICATION

For inner-connection of high voltage circuits. It is resistant to flame spreading, but not to moulds and UV radiation.

Nominal cross-section of core (mm ²)	Maximal resistance of core at 20°C (Ω/km)	Maximal overall diameter (mm)	Rated current *) (A)	Informative weight (kg/km)	Informative despatch length (m)
0,35	58,133	4,5	16	21	100

*) Values of current carrying capacity in air at +90°C.

Numerical data are not guaranteed, and they are subject to changes without notification.

Influence on the environment: The product does not have any negative influence on the environment.



Technical specification:	TP 12-41 MHS 332/80
Rated voltage:	3 kV (50Hz)
Test voltage:	12 kV (50Hz)
Temperature range for handling:	-5 °C * to +85 °C **
Colour of insulation:	I. insulation: natural II. insulation: black
Deliveries:	coils, drums, reels
Manufacture to order	

Construction:

1. Stranded tinned copper conductor
2. I. insulation silicone rubber
3. II. insulation heat resistant PVC

- * If mechanical stressing is excluded, the cable can be used down to -30 °C.
- ** In cases, when a lower value of insulation resistance can be admitted and cable is not mechanically stressed, then it can be used up to +150 °C.

APPLICATION

The cable is intended for inner-connection of heating circuits in electric and motor trains. Sheath is resistant to flame spreading, oil and petrol acting, but it is not resistant to moulds and UV radiation.

Nominal cross-section of core (mm ²)	Maximal resistance of core at 20°C (Ω/km)	Maximal overall diameter (mm)	Rated current *) (A)	Informative weight (kg/km)	Informative despatch length (m)
4	4,847	8,6	55	108	100

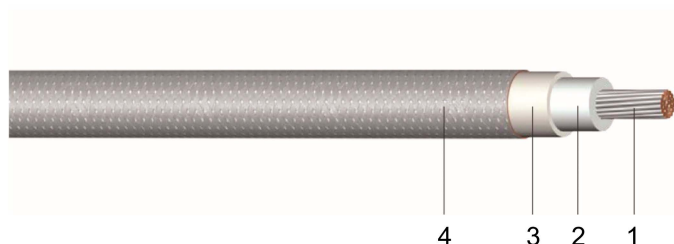
*) Values of current carrying capacity in air at +90°C.

Numerical data are not guaranteed, and they are subject to changes without notification.

Influence on the environment: The product does not have any negative influence on the environment.

Interconnecting single-core high voltage wire

CSDF 0,35-19



Technical specification:	TP 12-41 MHS 332/80
Rated voltage:	19 kV _{ss}
Test voltage:	35 kV _{ss}
Temperature range for handling:	-5 °C * to +85 °C **
Colour of insulation:	I. insulation: natural II. insulation: white
Deliveries:	coils, drums, reels
Manufacture to order	

Construction:

1. Stranded tinned copper conductor
2. I. insulation silicone rubber
3. II. insulation heat resistant PVC
4. Screen braid of tinned copper wires

- * If mechanical stressing is excluded, the cable can be used down to -30 °C.
- ** In cases, when a lower value of insulation resistance can be admitted and cable is not mechanically stressed, then it can be used up to +150 °C.

APPLICATION

For inner-connection of high voltage circuits. It is resistant to flame spreading, but not to moulds and UV radiation.

Nominal cross-section of core (mm ²)	Maximal resistance of core at 20°C (Ω/km)	Maximal overall diameter (mm)	Rated current *) (A)	Informative weight (kg/km)	Informative despatch length (m)
0,35	58,133	6,4	13	53	100

*) Values of current carrying capacity in air at +90°C.

Numerical data are not guaranteed, and they are subject to changes without notification.

Influence on the environment: The product does not have any negative influence on the environment.



Technical specification:	TP 12-41 MHS 332/80
Rated voltage:	19 kV (50Hz)
Test voltage:	35 kV (50Hz)
Temperature range for handling:	-5 °C * to +85 °C **
Colour of insulation:	I. insulation: natural II. insulation: white
Deliveries:	coils, drums, reels
Manufacture to order	

Construction:

1. Stranded tinned copper conductor
2. I. insulation silicone rubber
3. II. insulation heat resistant PVC

- * If mechanical stressing is excluded, the cable can be used down to -30 °C.
- ** In cases, when a lower value of insulation resistance can be admitted and cable is not mechanically stressed, then it can be used up to +150 °C.

APPLICATION

For inner-connection of high voltage circuits. It is resistant to flame spreading, but not to moulds and UV radiation.

Nominal cross-section of core (mm ²)	Maximal resistance of core at 20°C (Ω/km)	Maximal overall diameter (mm)	Rated current *) (A)	Informative weight (kg/km)	Informative despatch length (m)
0,35	58,133	5,6	13	30	100

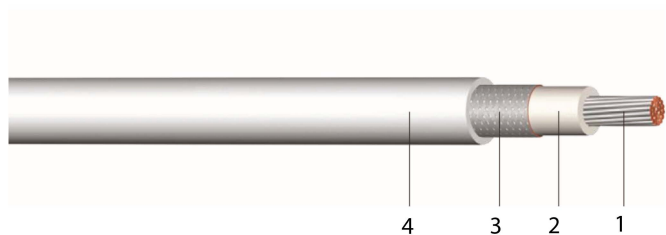
*) Values of current carrying capacity in air at +90°C.

Numerical data are not guaranteed, and they are subject to changes without notification.

Influence on the environment: The product does not have any negative influence on the environment.

Interconnecting single-core wire

CSAS



Technical specification: TP 03/41 MTP 608/67

Rated voltage: 300/500 V (cross-section 0,5 mm²)
450/750 V (cross-section 1,5 mm²)

Test voltage: 1,5 kV (cross-section 0,5 mm²)
2,5 kV (cross-section 1,5 mm²)

Temperature range for handling: -55 °C to +180 °C

Colour of insulation: natural

Colour of sheath: natural

Deliveries: coils, drums, reels

Construction:

1. Stranded tinned copper conductor
class 5 acc. to ČSN EN 60228
2. Insulation silicone rubber
3. Braid tinned copper wires
4. Silicone rubber sheath

APPLICATION

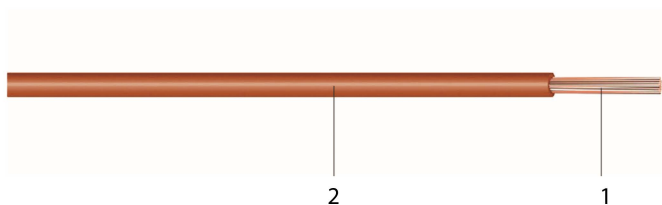
For internal and external connections of electrical devices and equipment in difficult operating conditions (temperature, chemical, etc.), without causing friction, impacts, scratches. It is resistant to UV radiation, moulds and most chemicals. It is not resistant to chlorinated aromatic hydrocarbons and flame spreading.

Nominal cross-section of core (mm ²)	Nominal thickness of insulation (mm)	Nominal thickness of sheath (mm)	Maximal overall diameter (mm)	Rated current *) (A)	Informative weight (kg/km)	Informative despatch length (m)
0,5	0,6	0,6	4,6	27	31	100
1,5	0,8	0,7	5,8	52	54	100

*) Values of current carrying capacity in air at +90°C.

Numerical data are not guaranteed, and they are subject to changes without notification.

Influence on the environment: The product does not have any negative influence on the environment.



Technical specification: PN-KV-021-93

Rated voltage: 300/500 V

Test voltage: 2 kV

Temperature range for handling: -55 °C to +180 °C *)

Colour of insulation: black (BK), brown (BN), blue (BU), red (RD), green/yellow (GNYE), natural (NC), grey (GY), orange (OR), violet (VT). Other colours on request.

Deliveries: coils, drums, reels

Manufacture to order

Construction:

1. Stranded plain copper conductor
2. Silicone rubber insulation

*) It is possible to produce cable with temperature range for handling from -55 to +220°C.

APPLICATION

Structural elements guaranty high flexibility and plasticity with maintenance of wide temperature range for handling with minimum claim on necessary mechanical force for flex. It is possible to use this property for example for electric sensors of various value working in moveable mode and so on. It is recommended to protect cable from increased mechanical straining due to abrasion, nick and so on.

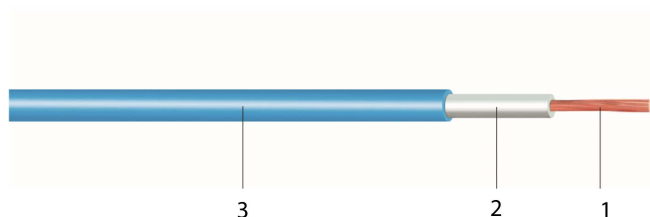
Nominal cross-section core (mm ²)	Construction of core (n x n x mm)	Shape of core	Nominal thickness of insulation (mm)	Average overall diameter (mm)	Maximal resistance of core at 20°C (Ω/km)	Rated current *) (A)	Content of Cu (kg/km)
0,35	7 x 15 x 0,050	RF	0,6	2,2	56,3	16	3,4
0,5	7 x 25 x 0,050	RF	0,6	2,5	38,3	19	4,9
0,75	7 x 27 x 0,071	RF	0,6	2,7	25,9	24	7,4
1	7 x 36 x 0,071	RF	0,6	2,8	19,5	28	9,8
1,5	7 x 2 x 30 x 0,071	RF	0,6	3,2	11,7	35	14,7
2,5	7 x 3 x 30 x 0,071	RF	0,6	3,7	7,8	48	25
4	7 x 5 x 30 x 0,071	RF	0,6	4,4	4,7	66	39
6	7 x 7 x 30 x 0,071	RF	0,6	6	3,3	85	59

*) Values of current carrying capacity in air at +90°C.

Numerical data are not guaranteed, and they are subject to changes without notification.

Influence on the environment: The product does not have any negative influence on the environment.

Interconnecting wires insulated with silicone rubber with increased flexibility



Technical specification: PN-KV-021-93

Rated voltage: 600/1000 V

Test voltage: 4 kV

Temperature range for handling: -55 °C to +180 °C *)

Colour of basic insulation: natural (NC)

Colour of supplementary insulation:
black (BK), brown (BN)
blue (BU), red (RD),
light blue (LB), green/yellow (GNYE),
natural (NC), grey (GY),
orange (OR), violet (VT)
Other colours on request.

Deliveries: coils, drums, reels

Manufacture to order

Construction:

1. Stranded plain copper conductor
2. Silicone rubber basic insulation
3. Silicone rubber supplementary insulation

*) It is possible to produce cable with temperature range for handling from -55 to +220°C.

APPLICATION

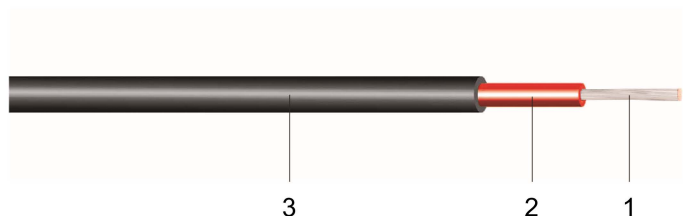
Structural elements guaranty high flexibility and plasticity with maintenance of wide temperature range for handling with minimum claim on necessary mechanical force for flex. It is possible to use this property for example for electric sensors of various value working in moveable mode and so on. Double layer of insulation provide increased insulation protection class II. according to ČSN 33 2000-4-41. It is recommended to protect cable from increased mechanical straining due to abrasion, nick and so on.

Nominal cross-section core (mm ²)	Construction of core (n x n x mm)	Shape of core	Nominal thickness of basic insulation (mm)	Nominal thickness of suppl. insulation (mm)	Maximal overall diameter (mm)	Maximal resistance of core at 20°C (Ω/km)	Rated current *) (A)	Content of Cu (kg/km)
0,35	7 x 15 x 0,050	RF	0,6	0,4	3,2	56,3	16	3,4
0,5	7 x 25 x 0,050	RF	0,6	0,4	3,5	38,3	19	4,9
0,75	7 x 27 x 0,071	RF	0,6	0,4	3,7	25,9	24	7,4
1	7 x 36 x 0,071	RF	0,6	0,4	3,8	19,5	28	9,8
1,5	7 x 2 x 30 x 0,071	RF	0,6	0,4	4,1	11,7	35	14,7
2,5	7 x 3 x 30 x 0,071	RM	0,6	0,4	4,6	7,8	48	25
4	7 x 5 x 30 x 0,071	RM	0,6	0,4	5,3	4,7	66	39
6	7 x 7 x 30 x 0,071	RM	0,6	0,4	6,9	3,3	85	59

*) Values of current carrying capacity in air at +90°C.

Numerical data are not guaranteed, and they are subject to changes without notification.

Influence on the environment: The product does not have any negative influence on the environment.



Technical specification:	TP 12-41 MHS 235/77
Rated voltage:	300/500 V
Test voltage:	4 kV
Temperature range for handling:	+5 °C to +90 °C
Colour of insulation:	see the table
Colour of sheath:	black (BK), blue (BU)
Deliveries:	coils, drums, reels
Manufacture to order	

Construction:

1. Stranded tinned copper conductor
class 5 acc. to ČSN EN 60228
2. Silicone rubber insulation
3. Heat resistant PVC sheath

Fire technical characteristics:

The cable is resistant to flame propagation according to request of fire technical characteristics given acc. to Decree No. 246/201 Col.

APPLICATION

The cable is designed for terminals of cables heating circuits for large area heating. For fixed instalation in concrete, plaster floor and under plaster. The cable is resistant to flame propagation and to fungi.

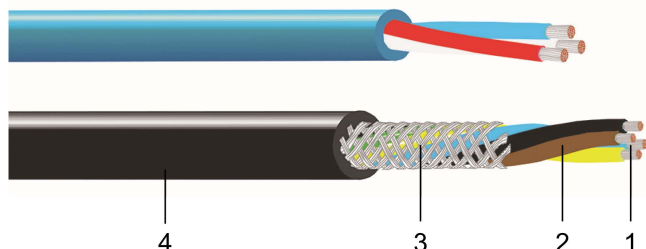
Nominal cross-section core (mm ²)	Shape of core	Nominal thickness of insulation (mm)	Nominal thickness of sheath (mm)	Maximal overall diameter (mm)	Maximal resistance of core at 20°C (Ω/km)	Colour of insulation	Content of Cu (kg/km)
1	RM	0,6	1,2	5,4	19,415	white (WH)	9,8
1,5	RM	0,7	1,2	5,8	13,254	red (RD)	14,7
2,5	RM	0,8	1,2	6,5	7,953	brown (BN)	25

*) Numerical data are not guaranteed, and they are subject to changes without notification.

Influence on the environment: The product does not have any negative influence on the environment.

Heat-resistant interconnecting multi-core flexible cables

TBVS, TBVFS



Construction:

1. Silver-coated stranded copper cores
2. Fluoroplastic FEP
Cores are twisted together.
3. Screen (TBVFS): Braid or wrapping of tinned Cu wires
4. Sheath: Silicone vulcanizate

TBVFS - improved electromagnetic compatibility

Technical specification: PN-KV-020-92

Rated voltage: 300 V (up to and incl. cross-section of 0,22 mm)
500 V (from cross-section 0,34 mm)

Test voltage: 2 kV - conductors to screen (TBVFS)
4 kV - conductors to water

Temperature range for handling: -55 °C to +180 °C

Colour of insulation: 0 - black (BK), 1 - brown (BN), 2 - red (RD), 3 - orange (OR), 4 - yellow (YE), 5 - green (GN), 6 - blue (BU), 7 - violet (VT), 8 - grey (GY), 9 - white (WH)

Colour of sheath: blue (BU), black (BK), brow (BN), red (RD)
Other colours on request.

Deliveries: coils, drums, reels

Manufacture to order

APPLICATION

The cable is as a rule intended for mutual flexible inter-connection of elements, circuits and devices that are working under aggravated service conditions. Cable can be successfully used for application that require increased flexibility and heat resistance with small external dimensions of inter-connecting wiring. There is necessary to exclude action of mechanical influences on cable sheath (enhanced danger of mechanical damage) with use. This cable has very low signal transmission losses due to excellent dielectric (low capacitance losses of FEP insulation) and high conductor conductivity (silver-coated copper). Manufacturer does not recommend to use the cable for electric power transmission. The cable is resistant to ozone, corona, UV radiation, moulds, diluted acids and alkalis. Chlorinated hydrocarbons give cause for swelling of sheath and degrade its mechanical properties. Cable is not resistant to flame propagation.

No. of cores x cross-section of core (n x mm ²)	No. of wires x maximal diameter of wires in core (n x mm)	Maximal conductor resistance at 20°C (Ω/km)	Insulation thickness (mm)	Sheath thickness (mm)	Maximal core diameter (mm)	Maximal overall diameter TBVS (mm)	Maximal overall diameter TBVFS (mm)
2 x 0,22	7 x 0,20	87,3	0,17 - 0,05	0,6 - 0,2	1,3	3,3	3,7
3 x 0,22	7 x 0,20	87,3	0,17 - 0,05	0,6 - 0,2	1,3	3,4	3,9
4 x 0,22	7 x 0,20	87,3	0,17 - 0,05	0,6 - 0,2	1,3	3,7	4,2
2 x 0,34	7 x 0,25	55,9	0,20 - 0,05	0,6 - 0,2	1,5	3,9	4,3
3 x 0,34	7 x 0,25	55,9	0,20 - 0,05	0,6 - 0,2	1,5	4,1	4,5
4 x 0,34	7 x 0,25	55,9	0,20 - 0,05	0,6 - 0,2	1,5	4,4	4,9
2 x 0,56	7 x 0,32	33,1	0,20 - 0,05	0,6 - 0,2	1,7	4,2	4,6
3 x 0,56	7 x 0,32	33,1	0,20 - 0,05	0,6 - 0,2	1,7	4,5	4,8
4 x 0,56	7 x 0,32	33,1	0,20 - 0,05	0,6 - 0,2	1,7	4,8	5,3

*) Numerical data are not guaranteed, and they are subject to changes without notification.

Influence on the environment: The product does not have any negative influence on the environment.

Braided wires



Technical specification: TDL

Rated voltage: 300/500 V (H05V-K, V05S-K)
450/750 V (H07V-K, V07S-K)

Temperature range for handling:
-10 °C to +70 °C (H05V-K, V07V-K)
-55 °C to +180 °C (H05S-K, V07S-K)

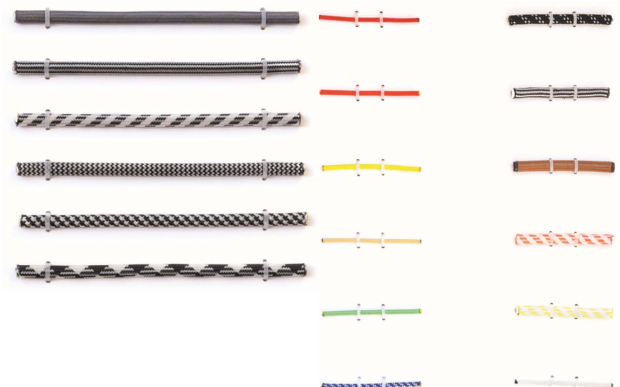
Deliveries: coils, drums, reels

- Material braiding:** Textile 100% polyester
- Braiding features:** heat resistant up to 170 °C
various colors and patterns
- Braiding colors:** black, white, grey, red, orange, yellow,
green, light blue, dark blue, raspberry,
gold, light brown, dark brown
- Conductor:** Single-core PVC or SI wire
Individual dimensions see chart
- Application:** Designed version

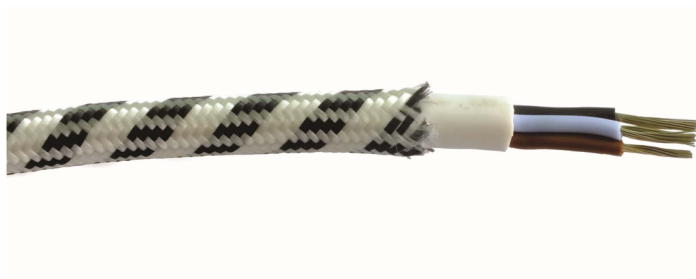
Type of conductor	Insulation material	Maximal conductor diameter (mm)	Maximal diameter of braided conductor (mm)	Rated current (A)
H05V-K 0,75	PVC	2,7	3,2	16
H05V-K 1,0	PVC	2,8	3,3	19
H07V-K 1,5	PVC	3,4	3,9	24
H07V-K 2,5	PVC	4,1	4,6	33
H07V-K 4,0	PVC	4,8	5,3	45
H07V-K 6,0	PVC	5,3	5,8	58
V05S-K 0,5	SI	2,6	3,1	19
V05S-K 0,75	SI	2,8	3,3	24
V05S-K 1,0	SI	3,0	3,5	28
V07S-K 1,5	SI	3,5	4,0	35
V07S-K 2,5	SI	4,3	4,8	48

Numerical data are not guaranteed, and they are subject to changes without notification.

Influence on the environment: The product does not have any negative influence on the environment.



Braided cables

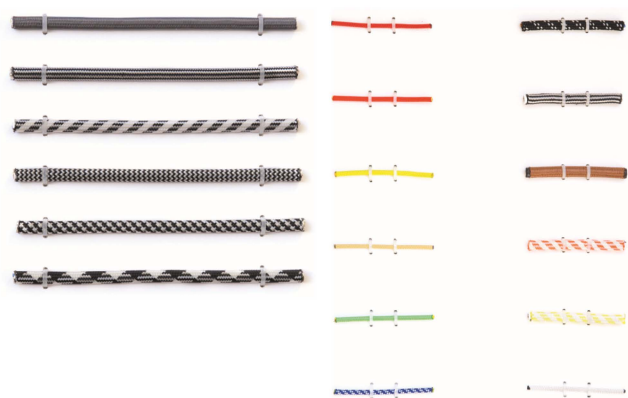


Technical specification: TDL

Rated voltage: 300/300 V (H03VV-F)
300/500 V (H05VV-F, V05SS-F, H05RN-F)

Temperature range for handling:
-40 °C to +60 °C (H05RN-F)
-10 °C to +70 °C (H05VV-F, H03VV-F)
-55 °C to +180 °C (V05SS-F)

Deliveries: coils



Conductor: PVC/SI/EPDM cords Individual dimensions see chart

Application: Designed version

Material braiding: Textile 100% polyester

Braiding features: heat resistant up to 170 °C
various colors and patterns

Braiding colors: black, white, grey, red, orange, yellow, green, light blue, dark blue, raspberry, gold, light brown, dark brown

Type of conductor	Insulation material	Maximal conductor diameter (mm)	Maximal diameter of braided conductor (mm)	Rated current (A)
H03V-F 2x0,50	PVC	5,9	6,4	11
H05V-F 2x0,75	PVC	7,2	7,7	14
H05V-F 2x1,0	PVC	7,5	8,0	17
H05V-F 2x1,5	PVC	8,6	9,1	21
H05V-F 3x0,50	PVC	6,3	6,8	11
H05V-F 3x0,75	PVC	7,6	7,1	14
H05V-F 3x1,0	PVC	8,0	8,5	17
H05V-F 3x1,5	PVC	9,4	9,9	21
V05SS-F 2x0,50	SI	6,6	7,1	16
V05SS-F 2x0,75	SI	7,4	7,9	21
V05SS-F 2x1,0	SI	7,8	8,3	24
V05SS-F 2x1,5	SI	8,4	8,9	31
V05SS-F 3x0,50	SI	7,0	7,5	16
V05SS-F 3x0,75	SI	7,9	8,4	21
V05SS-F 3x1,5	SI	8,3	8,8	24
V05SS-F 3x0,75	SI	9,2	9,7	31
H05RN-F 2x0,75	EPDM	7,4	7,9	14
H05RN-F 2x1,0	EPDM	8,0	8,5	17
H05RN-F 2x1,5	EPDM	9,8	10,3	21
H05RN-F 3x0,75	EPDM	8,1	8,6	14
H05RN-F 3x1,0	EPDM	8,5	9,0	17
H05RN-F 3x1,5	EPDM	10,4	10,9	21

Numerical data are not guaranteed, and they are subject to changes without notification.

Influence on the environment: The product does not have any negative influence on the environment.