CABI WIRES

Product Catalog

Built for responsiveness across industries
— from construction to aerospace, we deliver fast, flexible silicone cable solutions fully aligned with your specifications, timelines, and compliance requirements.

Fast. Flexible.
European-made.

www.cabiwires.com

Engineered for speed.
Designed for precision.
Built for you.

www.cabiwires.com

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About Us

Company Overview

CABI Wires is a European manufacturer of high-performance silicone cables, founded in 2024 and based in Bistrița-Năsăud, Romania. We are built to deliver fast, precise, and compliant cable solutions for demanding industries — from construction and industrial automation to aerospace and specialized equipment.

With daily production capacity of up to 150,000 meters, advanced Italian extrusion lines, and in-house testing of every batch, we ensure consistent quality and reliable lead times.

Our certifications — CE, CPR, and RoHS — guarantee full compliance with European safety and performance standards.

Positioned as an agile mid-size manufacturer, we combine industrial-scale capability with the flexibility to customize color, marking, packaging, and compound formulation. Our clients benefit from transparent communication, technical guidance, and a partnership mindset built on responsiveness.

We're built for responsiveness — fast, flexible silicone cable solutions aligned with your specs, timelines, and compliance needs.

Our Values
& Mission

At CABI Wires, our values guide every decision, process, and product we deliver. We believe that long-term performance comes from the right balance between speed, precision, and transparency. Our commitment to responsiveness allows us to adapt quickly to technical challenges while meeting strict quality standards.

We design with flexibility in mind and manufacture with control — combining certified processes with a streamlined approach. Every cable is not just a product, but a solution: engineered to perform and backed by a team that values clarity, accountability, and trust.

01

Responsiveness

We prioritize speed without sacrificing quality — enabling our clients to meet tight production timelines with confidence.

02

Flexibility by Design

From insulation to packaging, every element can be tailored to fit your technical and operational needs.

03

Precision Without Bureaucracy

We combine rigorous internal testing with clear, efficient processes to deliver dependable results — without unnecessary friction.

We build fast, flexible silicone cable solutions — grounded in precision, driven by partnership, and proven in the field.

Mission

CABI Wires exists to deliver fast, flexible silicone cable solutions that meet the highest technical standards. Our advanced manufacturing and customization capabilities enable us to serve diverse industrial needs — with precision, speed, and no compromise.

SIF Single Core Flexible Conductor with Silicone Rubber Insulation with Nominal Voltage of 300/500 V

Section:

Packing:

Coil | Carton Box | Plywood Drum | Wood Drum | Plastic Spool

Construction

1 – Flexible bare or tinned copper conductor, class 5, according to EN 60228

2 – Silicon rubber insulation, type EI2 according to EN 50363-1

Technical data

Nominal voltage Uo/U	300/500 V
Test voltage	2000 V AC
Breakdown voltage	according to EN 50395, 5000 V DC, in water, for 5 minutes
Flame-retardant	according to EN 60332-1-2
Temperature Range	• flexible: -60 °C to + 180 °C • fixed: -60 °C to + 180 °C
Minimum bending radius	• flexible: 15x Outer Ø • fixed: 6x Outer Ø
Cable type	SIF

SIF Single Core Flexible Conductor with Silicone Rubber Insulation with Nominal Voltage of 300/500 V

Nominal cross-section of the conductor	Nominal insulation thickness	Nominal external diameter of the conductor	Maximal electrical resistance at 20 °C	
			BARE	TINNED
(mm²)	(mm)	(mm)	Ω/km	Ω/km
0.5	0.60	2.10	39.00	40.10
0.75	0.60	2.40	26.00	26.70
1	0.60	2.50	19.50	20.00
1.5	0.60	2.80	13.30	13.70
2.5	0.70	3.40	7.98	8.21
4	0.80	4.20	4.95	5.09
6	0.80	4.70	3.30	3.39
10	1.00	6.20	1.91	1.95
16	1.00	7.40	1.21	1.24
25	1.20	9.20	0.780	0.795
35	1.20	10.30	0.554	0.565
50	1.40	12.00	0.386	0.393

NOTE : All dimensions are subject to a manufacturing tolerance of ±5%.

SIF-GL Single Core Flexible Conductor with Silicone Rubber Insulation and Fiberglass Braid with Nominal Voltage of 300/500 V

Section:

Packing:

Coil | Carton Box | Plywood Drum | Wood Drum | Plastic Spool

Construction

1 – Flexible bare or tinned copper conductor, class 5, according to EN 60228

2 – Silicon rubber insulation, type EI2 according to EN 50363-1

3 – Fiberglass braids, according to EN 50525-1, art. 5.5.7

Technical data

Nominal voltage	300/500 V
Test voltage	2000 V AC
Breakdown voltage	according to EN 50395, 5000 V DC, in water, for 5 minutes
Flame-retardant	according to EN 60332-1-2
Temperature Range	• flexible: -60 °C to + 180 °C • fixed: -60 °C to + 180 °C • peaks at: 210 °C
Minimum bending radius	15x Outer Ø
Cable type	SIF - GL

SIF-GL Single Core Flexible Conductor with Silicone Rubber Insulation and Fiberglass Braid with Nominal Voltage of 300/500 V

Nominal cross-section of the conductor	Nominal insulation thickness	Nominal external diameter of the conductor	Maximal electrical resistance at 20 °C	
			BARE	TINNED
(AWG)	(mm)	(mm)	Ω/km	Ω/km
0.5	0.60	2.30	39.00	40.10
0.75	0.60	2.60	26.00	26.70
1	0.60	2.70	19.50	20.00
1.5	0.60	3.00	13.30	13.70
2.5	0.70	3.50	7.98	8.21
4	0.80	4.40	4.95	5.09
6	0.80	4.90	3.30	3.39
10	1.00	6.40	1.91	1.95
16	1.00	7.60	1.21	1.24
25	1.20	9.40	0.780	0.795
35	1.20	10.50	0.554	0.565
50	1.40	12.20	0.386	0.393

NOTE : All dimensions are subject to a manufacturing tolerance of ±5%.

SIF-HV High Voltage Single Core Flexible Conductor with Silicone Rubber Insulation

Section:

RoHS COMPLIANT

HALOGEN FREE

Packing:

Coil | Carton Box | Plywood Drum | Wood Drum | Plastic Spool

Construction

1 – Flexible bare or tinned copper conductor, class 5, according to EN 60228

2 – Silicon rubber insulation, type EI2 according to EN 50363-1

Technical data

Nominal voltage	2800 to 10000 V
Test voltage	15000 to 25000 V AC
Flame-retardant	according to EN 60332-1-2
Temperature Range	• flexible: -60 °C to + 180 °C • fixed: -60 °C to + 180 °C • peaks at: 210 °C
Minimum bending radius	• flexible: 7.5x Outer Ø • fixed: 4x Outer Ø
Cable type	SIF - HV

SIF-HV High Voltage Single Core Flexible Conductor with Silicone Rubber Insulation

Cross-section	Nominal insulation thickness	Nominal external diameter of the conductor	Nominal Voltage	Maximal electrical resistance at 20 °C	
				BARE	TINNED
(mm²)	(mm)	(mm)	(kV)	Ω/km	Ω/km
0.25	1.18	3.00	3.50	78.00	80.20
0.35	1.45	3.70	3.50	55.70	57.30
0.35	2.10	5.00	7.50	55.70	57.30
0.50	1.05	3.00	3.50	39.00	40.10
0.50	2.50	6.00	7.50	39.00	40.10
0.50	3.00	7.00	10.00	39.00	40.10
0.75	1.10	3.30	3.50	26.00	26.70
0.75	2.45	6.00	7.50	26.00	26.70
0.75	2.95	7.00	10.00	26.00	26.70
1.00	1.60	4.50	2.80	19.50	20.00
1.00	1.85	5.00	3.50	19.50	20.00
1.00	2.35	6.00	7.50	19.50	20.00
1.00	2.85	7.00	10.00	19.50	20.00
1.50	3.00	7.50	7.50	13.30	13.70

NOTE : All dimensions are subject to a manufacturing tolerance of ±5%.

SIF-POL Single Core Flexible Conductor with Silicone Rubber Insulation and Polyester Braid with Nominal Voltage of 300/500 V

Section:

Packing:

Coil | Carton Box | Plywood Drum | Wood Drum | Plastic Spool

Construction

1 – Flexible bare or tinned copper conductor, class 5, according to EN 60228

2 – Silicon rubber insulation, type EI2 according to EN 50363-1

3 – Polyester braid, according to EN 50525-1, art. 5.5.7

Technical data

Nominal voltage	300/500 V
Test voltage	2000 V AC
Breakdown voltage	according to EN 50395, 5000 V DC, in water, for 5 minutes
Flame-retardant	according to EN 60332-1-2
Temperature Range	• flexible: -60 °C to + 180 °C • fixed: -60 °C to + 180 °C • peaks at: 210 °C
Minimum bending radius	15x Outer Ø
Cable type	SIF - POL

SIF-POL Single Core Flexible Conductor with Silicone Rubber Insulation and Polyester Braid with Nominal Voltage of 300/500 V

Nominal cross-section of the conductor	Nominal insulation thickness	Nominal external diameter of the conductor	Maximal electrical resistance at 20 °C	
			BARE	TINNED
(mm²)	(mm)	(mm)	Ω/km	Ω/km
0.5	0.60	2.30	39.00	40.10
0.75	0.60	2.60	26.00	26.70
1	0.60	2.70	19.50	20.00
1.5	0.60	3.00	13.30	13.70
2.5	0.70	3.50	7.98	8.21
4	0.80	4.40	4.95	5.09
6	0.80	4.90	3.30	3.39
10	1.00	6.40	1.91	1.95
16	1.00	7.60	1.21	1.24
25	1.20	9.40	0.780	0.795
35	1.20	10.50	0.554	0.565
50	1.40	12.20	0.386	0.393

NOTE : All dimensions are subject to a manufacturing tolerance of ±5%.

SIF-AWG Single Core Flexible Conductor with Silicone Rubber Insulation with Nominal Voltage of 600 V

Section:

Packing:

Coil | Carton Box | Plywood Drum | Wood Drum | Plastic Spool

Construction

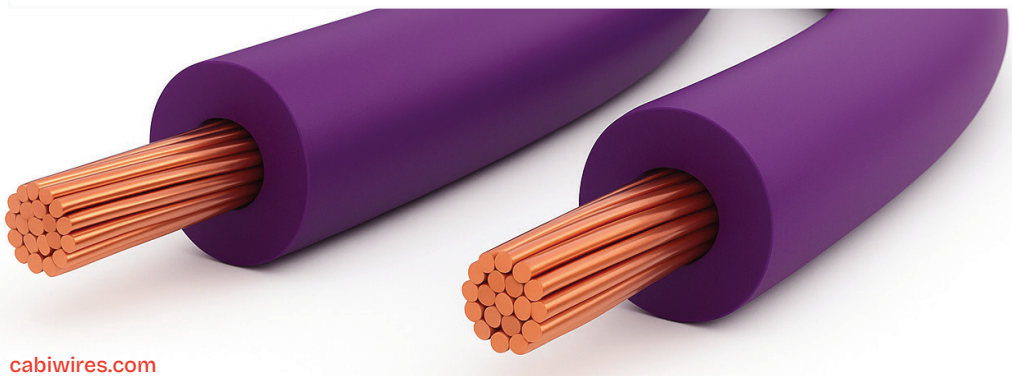
1 – Flexible bare or tinned copper conductor, class K, according to ASTM B173

2 – Silicone rubber insulation according to UL 758 / UL 1581, Style UL 3512 (600 V), functionally equivalent EI2 as per EN 50363-1

3 – Conductor size according to AWG (American Wire Gauge)

Technical data

Nominal voltage	600 V
Test voltage	2000 V AC
Breakdown voltage	5000 V DC for 5 minutes
Flame-retardant	according to EN 60332-1-2
Temperature Range	• flexible: -60 °C to + 180 °C • fixed: -60 °C to + 180 °C
Minimum bending radius	• flexible: 15x Outer Ø • fixed: 6x Outer Ø
Cable type	AWG size - UL STYLE 3512



SIF-AWG Single Core Flexible Conductor with Silicone Rubber Insulation with Nominal Voltage of 600 V

Nominal cross-section of the conductor	Nominal insulation thickness	Nominal external diameter of the conductor approx.	Maximal electrical resistance at 20 °C	
			BARE	TINNED
(AWG)	(mm)	(mm)	Ω/km	Ω/km
20	0.76	2.60	34.10	34.80
18	0.76	2.80	21.30	21.70
16	0.76	3.40	13.40	13.70
14	0.76	3.80	8.47	8.64
13	0.76	3.90	6.71	6.84
12	0.76	4.30	5.30	5.41
11	1.14	4.50	4.21	4.29
10	1.14	5.40	3.33	3.40
8	1.14	6.50	2.10	2.14
6	1.52	8.50	1.33	1.36
4	1.52	9.70	0.840	0.857
2	1.52	11.20	0.527	0.538
1	1.52	12.50	0.418	0.426

NOTE : All dimensions are subject to a manufacturing tolerance of ±5%.

DISCLAIMER: This technical data sheet refers to the AWG variant of the SIF cable, designed for markets and applications where American Wire Gauge standardization is required. Metric equivalents are available upon request.

SIHF Multicore Flexible Silicone Insulated and Sheathed Cable with Nominal Voltage of 300/500 V

Section:

Packing:

Coil | Carton Box | Plywood Drum | Wood Drum | Plastic Spool

Construction

1 – Flexible bare or tinned copper conductor, class 5, according to EN 60228

2 – Silicon rubber insulation, type EI2 according to EN 50363-1

3 – Outer sheath made of silicone rubber Compound, type EM9 according to EN 50363-1

4 – Core identification according to VDE 0293 (HD 308 S2)

Technical data

Nominal voltage Uo/U	300/500 V
Test voltage	2000 V AC
Breakdown voltage	according to EN 50395, 5000 V DC, in water, for 5 minutes
Flame-retardant	according to EN 60332-1-2
Temperature Range	• flexible: -60 °C to + 180 °C • fixed: -60 °C to + 180 °C
Minimum bending radius	• flexible: 7.5x Outer Ø • fixed: 4x Outer Ø
Cable type	SIHF

SIHF Multicore Flexible Silicone Insulated and Sheathed Cable with Nominal Voltage of 300/500 V

Number of cores and cross-section	Nominal insulation thickness	Nominal sheath thickness	Nominal external diameter of the conductor	Maximal electrical resistance at 20 0C	
N x mm²	(mm)	(mm)	(mm)	BARE	TINNED
				Ω/km	Ω/km
2 x 0.5	0.60	0.60	5.40	39.00	40.10
3 x 0.5	0.60	0.70	5.90	39.00	40.10
4 x 0.5	0.60	0.70	6.40	39.00	40.10
5 x 0.5	0.60	0.80	7.30	39.00	40.10
6 x 0.5	0.60	0.80	7.80	39.00	40.10
7 x0.5	0.60	0.90	8.50	39.00	40.10
2 x 0.75	0.60	0.80	6.40	26.00	26.70
3 x 0.75	0.60	0.80	6.80	26.00	26.70
4 x 0.75	0.60	0.90	7.60	26.00	26.70
5 x 0.75	0.60	1.00	8.50	26.00	26.70
6 x 0.75	0.60	1.00	9.20	26.00	26.70
7 x 0.75	0.60	1.00	9.20	26.00	26.70
2 x 1	0.60	0.80	6.60	19.50	20.00
3 x 1	0.60	0.80	7.00	19.50	20.00
4 x 1	0.60	0.80	7.80	19.50	20.00
5 x 1	0.60	1.00	8.80	19.50	20.00
6 x 1	0.60	1.00	9.50	19.50	20.00
7 x 1	0.60	1.00	9.50	19.50	20.00
2 x 1.5	0.60	1.00	7.60	13.30	13.70
3 x 1.5	0.60	1.00	8.00	13.30	13.70
4 x 1.5	0.60	1.00	8.80	13.30	13.70
4 x 1.5	0.60	1.00	9.60	13.30	13.70
6 x 1.5	0.60	1.00	10.40	13.30	13.70
7 x 1.5	0.60	1.00	10.40	13.30	13.70
2 x 2.5	0.70	1.00	8.80	7.98	8.21
3 x 2.5	0.70	1.20	9.70	7.98	8.21
4 x 2.5	0.70	1.20	10.60	7.98	8.21
5 x 2.5	0.70	1.20	11.60	7.98	8.21
6 x 2.5	0.70	1.20	12.60	7.98	8.21
7 x 2.5	0.70	1.20	12.60	7.98	8.21

SIHF Multicore Flexible Silicone Insulated and Sheathed Cable with Nominal Voltage of 300/500 V

Number of cores and cross-section	Nominal insulation thickness	Nominal sheath thickness	Nominal external diameter of the conductor	Maximal electrical resistance at 20 0C	
N x mm²	(mm)	(mm)	(mm)	BARE	TINNED
				Ω/km	Ω/km
2 x 4	0.80	1.20	10.80	4.95	5.09
3 x 4	0.80	1.20	11.40	4.95	5.09
4 x 4	0.80	1.20	12.60	4.95	5.09
5 x 4	0.80	1.30	14.00	4.95	5.09
2 x 6	0.80	1.30	12.00	3.30	3.39
3 x 6	0.80	1.30	12.80	3.30	3.39
4 x 6	0.80	1.40	14.20	3.30	3.39
5 x 6	0.80	1.50	15.80	3.30	3.39
2 x 10	1.00	1.60	15.6	1.91	1.95
3 x 10	1.00	1.60	16.50	1.91	1.95
4 x 10	1.00	1.80	18.60	1.91	1.95
5 x 10	1.00	1.90	20.60	1.91	1.95
2 x 16	1.00	1.70	18.20	1.21	1.24
3 x 16	1.00	1.80	19.60	1.21	1.24
4 x 16	1.00	1.90	21.80	1.21	1.24
5 x 16	1.00	2.10	24.40	1.21	1.24

NOTE : All dimensions are subject to a manufacturing tolerance of ±5%.

SIR-GL Single Core Rigid Conductor with Silicone Rubber Insulation and Fiberglass Braid with Nominal Voltage of 300/500 V

Section:

RoHS COMPLIANT

HALOGEN FREE

Packing:

Coil | Carton Box | Plywood Drum | Wood Drum | Plastic Spool

Construction

1 – Solid bare or tinned copper conductor, class 1, according to EN 60228

2 – Silicon rubber insulation, type EI2 according to EN 50363-1

3 – Fiberglass braids, according to EN 50525-1, art. 5.5.7

Technical data

Nominal voltage Uo/U	300/500 V
Test voltage	2000 V AC
Breakdown voltage	according to EN 50395, 5000 V DC, in water, for 5 minutes
Flame-retardant	according to EN 60332-1-2
Temperature Range	• flexible: -60 °C to + 180 °C • fixed: -60 °C to + 180 °C • peaks at: 210 °C
Minimum bending radius	15x Outer Ø
Cable type	SIR - GL

SIR-GL Single Core Rigid Conductor with Silicone Rubber Insulation and Fiberglass Braid with Nominal Voltage of 300/500 V

Nominal cross-section of the conductor	Nominal insulation thickness	Nominal external diameter of the conductor	Maximal electrical resistance at 20 °C	
			BARE	TINNED
(mm²)	(mm)	(mm)	Ω/km	Ω/km
0.5	0.60	2.30	39.00	40.10
0.75	0.60	2.50	26.00	26.70
1	0.60	2.60	19.50	20.00
1.5	0.60	2.90	13.30	13.70
2.5	0.70	3.40	7.98	8.21
4	0.80	4.30	4.95	5.09
6	0.80	4.80	3.30	3.39
10	1.00	6.30	1.91	1.95

NOTE : All dimensions are subject to a manufacturing tolerance of ±5%.

SIR-POL Single Core Rigid Conductor with Silicone Rubber Insulation and Polyester Braid with Nominal Voltage of 300/500 V

Section:

Packing:

Coil | Carton Box | Plywood Drum | Wood Drum | Plastic Spool

Construction

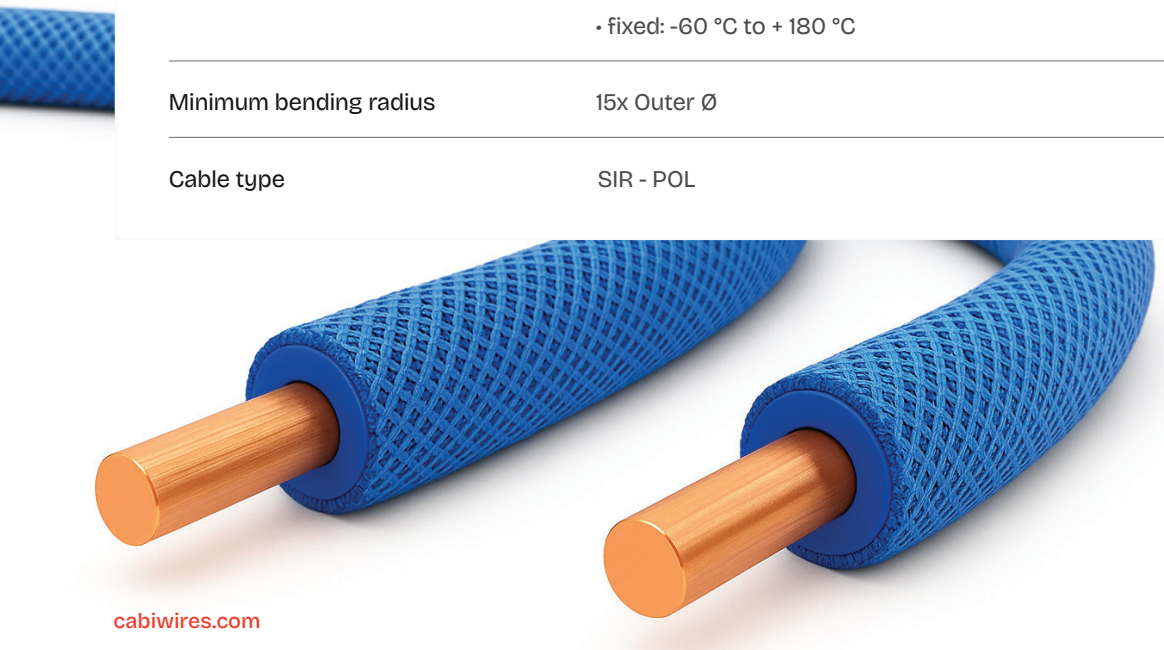
1 – Rigid bare or tinned copper conductor, class 1, according to EN 60228

2 – Silicon rubber insulation, type EI2 according to EN 50363-1

3 – Polyester braids, according to EN 50525-1, art. 5.5.7

Technical data

Nominal voltage Uo/U	300/500 V
Test voltage	2000 V AC
Breakdown voltage	according to EN 50395, 5000 V DC, in water, for 5 minutes
Flame-retardant	according to EN 60332-1-2
Temperature Range	• flexible: -60 °C to + 180 °C • fixed: -60 °C to + 180 °C
Minimum bending radius	15x Outer Ø
Cable type	SIR - POL



SIR-POL Single Core Rigid Conductor with Silicone Rubber Insulation and Polyester Braid with Nominal Voltage of 300/500 V

Nominal cross-section of the conductor	Nominal insulation thickness	Nominal external diameter of the conductor	Maximal electrical resistance at 20 °C	
			BARE	TINNED
(mm²)	(mm)	(mm)	Ω/km	Ω/km
0.5	0.60	2.30	39.00	40.10
0.75	0.60	2.50	26.00	26.70
1	0.60	2.60	19.50	20.00
1.5	0.60	2.90	13.30	13.70
2.5	0.70	3.40	7.98	8.21
4	0.80	4.30	4.95	5.09
6	0.80	4.80	3.30	3.39
10	1.00	6.30	1.91	1.95

NOTE : All dimensions are subject to a manufacturing tolerance of ±5%.

SIR Single Core Rigid Conductor with Silicone Rubber Insulation with Nominal Voltage of 300/500 V

Section:

RoHS COMPLIANT

HALOGEN FREE

Packing:

Coil | Carton Box | Plywood Drum | Wood Drum | Plastic Spool

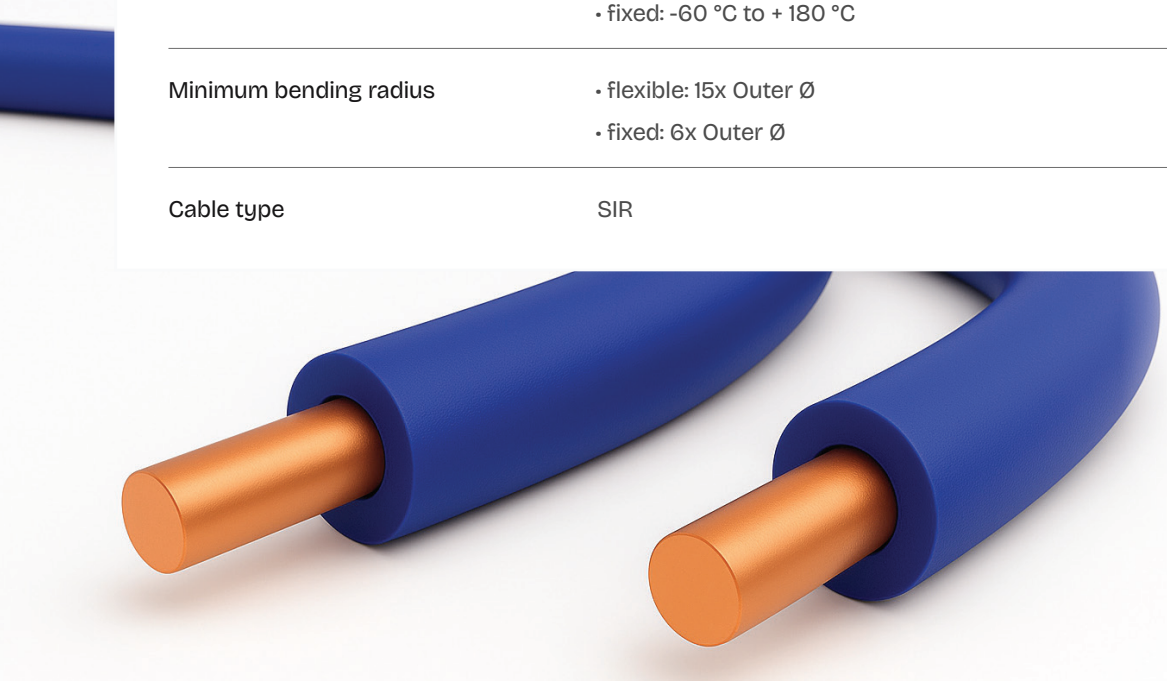
Construction

1 – Rigid bare or tinned copper conductor, class 1, according to EN 60228

2 – Silicon rubber insulation, type EI2 according to EN 50363-1

Technical data

Nominal voltage Uo/U	300/500 V
Test voltage	2000 V AC
Breakdown voltage	according to EN 50395, 5000 V DC, in water, for 5 minutes
Flame-retardant	according to EN 60332-1-2
Temperature Range	• flexible: -60 °C to + 180 °C • fixed: -60 °C to + 180 °C
Minimum bending radius	• flexible: 15x Outer Ø • fixed: 6x Outer Ø
Cable type	SIR



SIR Single Core Rigid Conductor with Silicone Rubber Insulation with Nominal Voltage of 300/500 V

Nominal cross-section of the conductor	Nominal insulation thickness	Nominal external diameter of the conductor	Maximal electrical resistance at 20 °C	
			BARE	TINNED
(mm²)	(mm)	(mm)	Ω/km	Ω/km
0.5	0.60	2.10	39.00	40.10
0.75	0.60	2.40	26.00	26.70
1	0.60	2.50	19.50	20.00
1.5	0.60	2.80	13.30	13.70
2.5	0.70	3.40	7.98	8.21
4	0.80	4.20	4.95	5.09
6	0.80	4.70	3.30	3.39
10	1.00	6.20	1.91	1.95
16	1.00	7.40	1.21	1.24

NOTE : All dimensions are subject to a manufacturing tolerance of ±5%.

Multicore Rigid Fire Resistant Cable with Silicone Insulation and M1 Sheath, Rated Voltage 300/500 V

Section:

Packing:

Coil | Plywood Drum | Wood Drum

Construction

1 – Rigid bare copper conductor, class 1 or 2, according to EN 60228

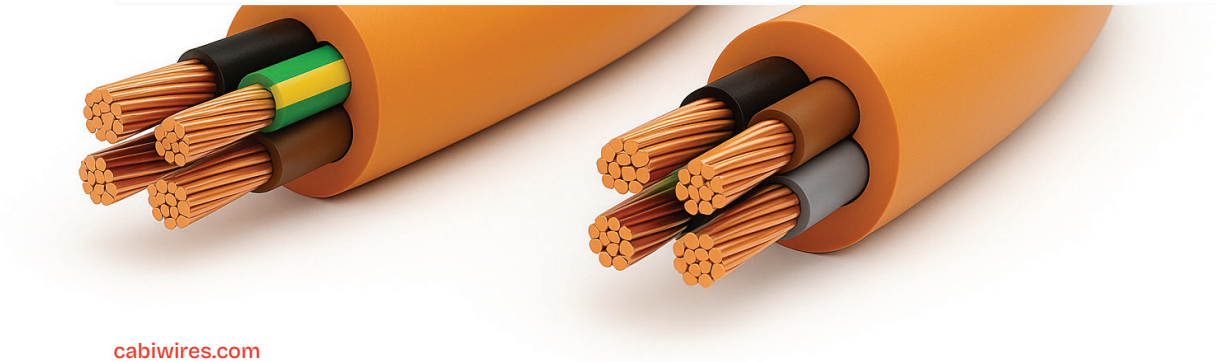
2 – Special CR1 C1 silicone rubber insulation

3 – Outer sheath made of special CR1 C1 silicone rubber compound

4 – Core identification according to VDE 0293 (HD 308 S2)

Technical data

Nominal voltage Uo/U	300/500 V
Test voltage	2000 V AC
Breakdown voltage	according to EN 50395, 5000 V DC, in water, for 5 minutes
Flame-retardant	according to EN 60332-1-2
Temperature Range	• flexible: -60 °C to + 180 °C • fixed: -60 °C to + 180 °C
Minimum bending radius	• flexible: 7.5x Outer Ø • fixed: 4x Outer Ø
Cable type	Fire Resistant Cable



Multicore Rigid Fire Resistant Cable with Silicone Insulation and M1 Sheath, Rated Voltage 300/500 V

Number of cores and cross-section	Nominal insulation thickness	Nominal sheath thickness	Nominal external diameter of the conductor	Maximal electrical resistance at 20 °C
(mm²)	(mm)	(mm)	(mm)	BARE
				Ω/km
2 x 1.5	0.80	1.00	8.00	13.30
3 x 1.5	0.80	1.00	8.40	13.30
4 x 1.5	0.80	1.00	9.20	13.30
5 x 1.5	0.80	1.00	10.10	13.30
6 x 1.5	0.80	1.00	11.00	13.30
7 x 1.5	0.80	1.00	11.00	13.30
2 x 2.5	0.90	1.00	9.20	7.98
3 x 2.5	0.90	1.00	9.70	7.98
4 x 2.5	0.90	1.20	11.00	7.98
5 x 2.5	0.90	1.20	12.00	7.98
6 x 2.5	0.90	1.20	13.20	7.98
7 x 2.5	0.90	1.20	13.20	7.98
2 x 4	1.00	1.20	11.20	4.95
3 x 4	1.00	1.20	12.00	4.95
4 x 4	1.00	1.20	13.00	4.95
5 x 4	1.00	1.20	14.30	4.95
2 x 6	1.00	1.20	13.80	3.30
3 x 6	1.00	1.20	14.50	3.30
4 x 6	1.00	1.20	16.00	3.30
5 x 6	1.00	1.20	17.60	3.30
3 x 10	1.20	1.20	16.50	1.91
4 x 10	1.20	1.20	18.20	1.91
5 x 10	1.20	1.20	20.10	1.91
3 x 16	1.20	1.20	18.80	1.21
4 x 16	1.20	1.20	20.90	1.21
5 x 16	1.20	1.20	23.00	1.21
1 x 25	1.40	1.20	12.40	0.780
1 x 35	1.50	1.20	13.60	0.554
1 x 50	1.60	1.20	15.80	0.386

NOTE : All dimensions are subject to a manufacturing tolerance of ±5%.

NHXH Power Cables with Insulation and Sheath of Cross-Linked Silicon Rubber, Halogen Free, with Nominal Voltage Uo/U: 600/1000 V, with Improved Fire Characteristics

Section:

RoHS COMPLIANT

HALOGEN FREE

Packing:

Coil

Plywood Drum

Wood Drum

Construction

1 – Single-core copper conductor class 1 or multi-core class 2, according to EN 60228

2 – Cross-linked silicone rubber insulation, halogen-free, fire and flame retardant, according to VDE 0266:2000;

The insulated conductors are concentrically twisted together; The color of the insulated conductors is according to HD 308 S2 (VDE 0293)

3 – Cross-linked silicone rubber sheath, halogen-free, fire and flame retardant, according to VDE 0266:2000

Technical data

Reference standard	DIN VDE 0266 (VDE 0266): 2000-03
Nominal operating voltage Uo/U	600/1000 V
Test voltage	according to EN 50395, 9.6 kVDC, for 5 minutes / each conductor
Resistance to flame propagation	according to EN 60332-3-24, cat. C
No corrosive gas emissions	according to VDE 0472 part 813
Smoke density	according to VDE 0472 part 816
Ambient temperature when installing the cable	- 10 °C ÷ +50 °C
Ambient temperature during cable operation	- 60 °C ÷ +180 °C
Maximum temperature of objects it can come into contact with	+180 °C

NHXH Power Cables with Insulation and Sheath of Cross-Linked Silicon Rubber, Halogen Free, with Nominal Voltage Uo/U: 600/1000 V, with Improved Fire Characteristics

Number of conductors and cross-section	Nominal insulation thickness	Nominal thickness of the jacket	Informative outer diameter	Maximal electrical resistance at 20 °C
N x (mm²)	(mm)	(mm²)	(mm²)	Ω/km
2 x 1.5	0.80	1.00	8.00	13.30
3 x 1.5	0.80	1.00	8.40	13.30
4 x 1.5	0.80	1.00	9.20	13.30
5 x 1.5	0.80	1.00	10.10	13.30
6 x 1.5	0.80	1.00	11.00	13.30
7 x 1.5	0.80	1.00	11.00	13.30
2 x 2.5	0.90	1.00	9.20	7.98
3 x 2.5	0.90	1.00	9.70	7.98
4 x 2.5	0.90	1.20	11.00	7.98
5 x 2.5	0.90	1.20	12.00	7.98
6 x 2.5	0.90	1.20	13.20	7.98
7 x 2.5	0.90	1.20	13.20	7.98
2 x 4	1.00	1.20	11.20	4.95
3 x 4	1.00	1.20	12.00	4.95
4 x 4	1.00	1.20	13.00	4.95
5 x 4	1.00	1.20	14.30	4.95
2 x 6	1.00	1.20	13.80	3.30
3 x 6	1.00	1.20	14.50	3.30
4 x 6	1.00	1.20	16.00	3.30
5 x 6	1.00	1.20	17.60	3.30
3 x 10	1.20	1.20	16.50	1.91
4 x 10	1.20	1.20	18.20	1.91
5 x 10	1.20	1.20	20.10	1.91
3 x 16	1.20	1.20	18.80	1.21
4 x 16	1.20	1.20	20.90	1.21
5 x 16	1.20	1.20	23.00	1.21
1 x 25	1.40	1.20	12.40	0.780
1 x 35	1.50	1.20	13.60	0.554
1 x 50	1.60	1.20	15.80	0.386

NOTE : All dimensions are subject to a manufacturing tolerance of ±5%.

H03S-K Heat-Resistant General Purpose Cables with Cross-linked Silicone Rubber Insulation and Flexible Copper Conductor, Rated Voltage Uo/U: 300/300 V

Section:

Packing:

Coil | Carton Box | Plywood Drum | Wood Drum | Plastic Spool

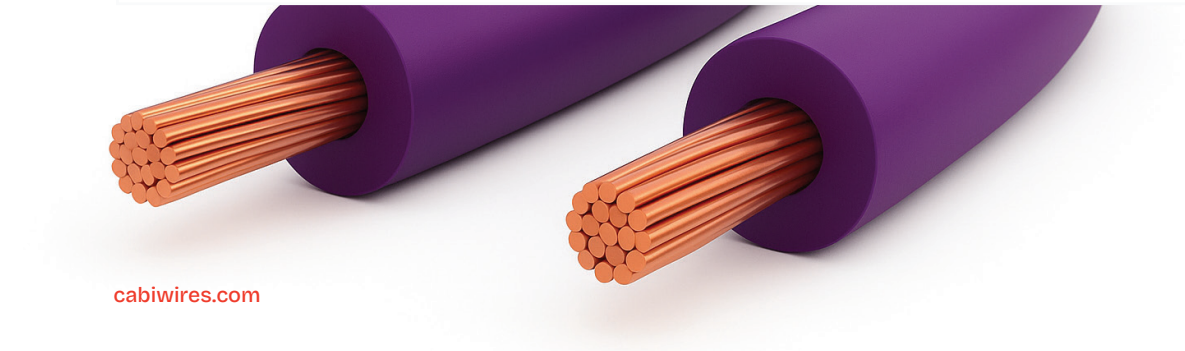
Construction

1 – Flexible copper conductor class 5, according to EN 60228

2 – Cross-linked silicone rubber insulation type EI2 according to EN 50363-1, heat resistant

Technical data

Reference standard	EN 50525-2-41
Nominal operating voltage Uo/U	300/300 V
Test voltage	according to EN 50395, 5 kVDC, in water, for 5 minutes
Resistance to flame propagation	according to EN 60332-1-2
Ambient temperature when installing the cable	- 10 °C ÷ +50 °C
Ambient temperature during cable operation	- 60 °C ÷ +180 °C
Maximum temperature of objects it can come into contact with	+180 °C
Marking	according to EN 50525-1 art. 6



H03S-K Heat-Resistant General Purpose Cables with Cross-linked Silicone Rubber Insulation and Flexible Copper Conductor, Rated Voltage Uo/U: 300/300 V

Nominal cross-section of the copper conductor	Insulation thickness nominal value	Average exterior dimensions		Maximal electrical resistance at 20 °C
		Lower limit	Upper limit	
(mm²)	(mm)	(mm)	(mm)	Ω/km
0.5	0.6	2.0	2.7	39.0
0.75	0.6	2.1	2.8	26.0
1.0	0.6	2.2	3.0	19.5
1.5	0.7	2.8	3.8	13.3
2.5	0.8	3.3	4.3	7.98

NOTE : All dimensions are subject to a manufacturing tolerance of ±5%.

H05S-K Heat-Resistant General Purpose Cables with Cross-Linked Silicone Rubber Insulation and Flexible Copper Conductor, Rated Voltage Uo/U: 300/500 V

Section:

Packing:

Coil | Carton Box | Plywood Drum | Wood Drum | Plastic Spool

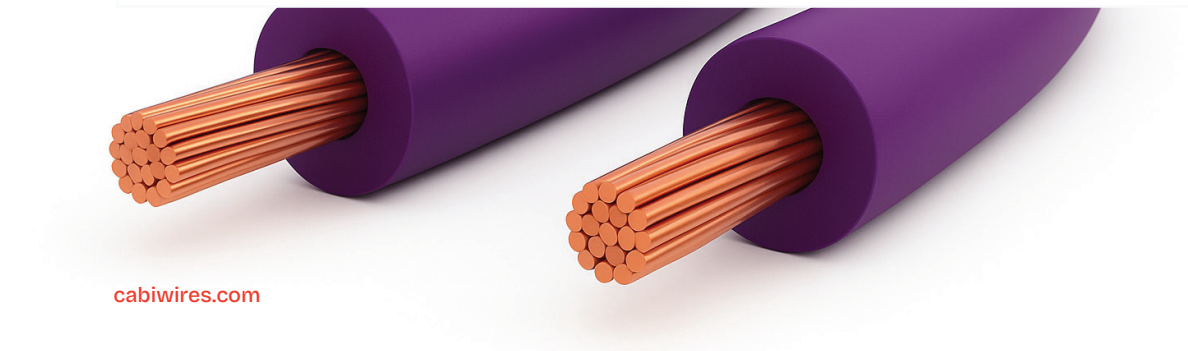
Construction

1 – Flexible copper conductor class 5, according to EN 60228

2 – Cross-linked silicone rubber insulation type EI2 according to EN 50363-1, heat resistant

Technical data

Reference standard	EN 50525-2-41
Nominal operating voltage Uo/U	300/500 V
Test voltage	according to EN 50395, 5 kVDC, in water, for 5 minutes
Resistance to flame propagation	according to EN 60332-1-2
Ambient temperature when installing the cable	- 10 °C ÷ +50 °C
Ambient temperature during cable operation	- 60 °C ÷ +180 °C
Maximum temperature of objects it can come into contact with	+180 °C
Marking	according to EN 50525-1 art. 6



H05S-K Heat-Resistant General Purpose Cables with Cross-Linked Silicone Rubber Insulation and Flexible Copper Conductor, Rated Voltage Uo/U: 300/500 V

Nominal cross-section of the copper conductor	Insulation thickness nominal value	Average exterior dimensions		Maximal electrical resistance at 20 °C
		Lower limit	Upper limit	
(mm²)	(mm)	(mm)	(mm)	Ω/km
0.5	0.8	2.4	3.1	39.0
0.75	0.8	2.6	3.2	26.0
1.0	0.8	2.7	3.4	19.5
1.5	0.9	3.2	4.0	13.3
2.5	1.0	3.6	4.7	7.98

NOTE : All dimensions are subject to a manufacturing tolerance of ±5%.

H05S-U Heat-Resistant General Purpose Cables with Cross-Linked Silicone Rubber Insulation and Rigid Copper Conductor, Rated Voltage Uo/U: 300/500 V

Section:

RoHS COMPLIANT

HALOGEN FREE

Packing:

Coil | Carton Box | Plywood Drum | Wood Drum | Plastic Spool

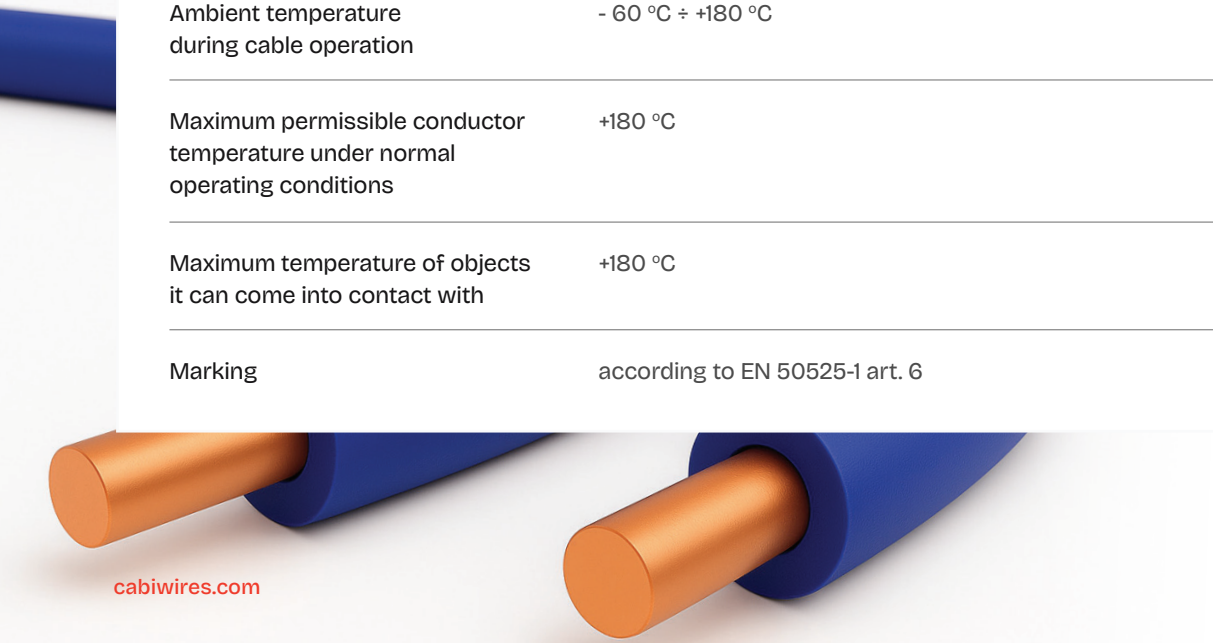
Construction

1 – Rigid copper conductor class 1, according to EN 60228

2 – Cross-linked silicone rubber insulation type EI2 according to EN 50363-1, heat resistant

Technical data

Reference standard	EN 50525-2-41
Nominal operating voltage Uo/U	300/500 V
Test voltage	according to EN 50395, 5 kVDC, in water, for 5 minutes
Resistance to flame propagation	according to EN 60332-1-2
Ambient temperature when installing the cable	- 10 °C ÷ +50 °C
Ambient temperature during cable operation	- 60 °C ÷ +180 °C
Maximum permissible conductor temperature under normal operating conditions	+180 °C
Maximum temperature of objects it can come into contact with	+180 °C
Marking	according to EN 50525-1 art. 6

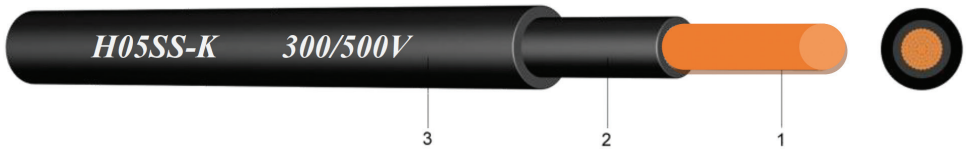


H05S-U Heat-Resistant General Purpose Cables with Cross-Linked Silicone Rubber Insulation and Rigid Copper Conductor, Rated Voltage Uo/U: 300/500 V

Nominal cross-section of the copper conductor	Insulation thickness nominal value	Average exterior dimensions		Maximal electrical resistance at 20 °C
		Lower limit	Upper limit	
(mm^2)	(mm)	(mm)	(mm)	Ω/km
0.5	0.8	2.3	2.9	36.0
0.75	0.8	2.4	3.1	24.5
1.0	0.8	2.6	3.2	18.1
1.5	0.9	3.0	3.8	12.1
2.5	1.0	3.6	4.5	7.41

NOTE : All dimensions are subject to a manufacturing tolerance of ±5%.

H05SS-K Heat-Resistant Cables for General Purposes, with Flexible Copper Conductor and Insulation and Sheath of Cross-linked Silicone Rubber, Rated Voltage Uo/U: 300/500 V



Section:

Packing:

Coil | Carton Box | Plywood Drum | Wood Drum | Plastic Spool

Construction

1 – Flexible copper conductor class 5, according to EN 60228

2 – Crosslinked silicone rubber insulation type EI2 according to EN 50363-1, heat resistant

3 – Crosslinked silicone rubber sheath type EM9 according to EN 50363-2-1heat resistant

Technical data

Reference standard	EN 50525-2-41
Nominal operating voltage Uo/U	300/500 V
Test voltage	according to EN 50395, 5 kVDC, in water, for 5 minutes
Resistance to flame propagation	according to EN 60332-1-2
Ambient temperature when installing the cable	- 10 °C ÷ +50 °C
Ambient temperature during cable operation	- 60 °C ÷ +180 °C
Maximum permissible conductor temperature under normal operating conditions	+180 °C
Maximum temperature of objects it can come into contact with	+180 °C
Marking	according to EN 50525-1 art. 6

H05SS-K Heat-Resistant Cables for General Purposes, with Flexible Copper Conductor and Insulation and Sheath of Cross-linked Silicone Rubber, Rated Voltage Uo/U: 300/500 V

Nominal cross-section of the copper conductor	Insulation thickness nominal value	Sheath thickness nominal value	Average exterior dimensions		Maximal electrical resistance at 20 °C
			Lower limit	Upper limit	
(mm²)	(mm)	(mm)	(mm)	(mm)	Ω/km
0.75	0.6	0.8	3.7	4.7	26.0
1.0	0.6	0.9	4.1	5.1	19.5
1.5	0.8	1.0	4.9	6.1	13.3
2.5	0.9	1.1	5.7	7.1	7.98

NOTE : All dimensions are subject to a manufacturing tolerance of ±5%.

H05SS-F Heat-Resistant Cables for General Purposes, with Flexible Copper Conductors and Insulation and Sheath of Cross-Linked Silicone Rubber, Rated Uo/U: 300/500 V

Section:

Packing:

Coil | Carton Box | Plywood Drum | Wood Drum | Plastic Spool

Construction

1 – Flexible copper conductor class 5, according to EN 60228

2 – Cross-linked silicone rubber insulation type EI2 according to EN 50363-1 heat resistance

3 – Cross-linked silicone rubber sheath type EM9 according to EN 50363-2-1 heat resistance

Technical data

Reference standard	EN 50525-2-83
Nominal operating voltage Uo/U	300/500 V
Test voltage	according to EN 50395, 5 kVDC, in water, for 5 minutes / each conductor
Resistance to flame propagation	according to EN 60332-1-2
Ambient temperature when installing the cable	- 10 °C ÷ +50 °C
Ambient temperature during cable operation	- 60 °C ÷ +180 °C
Maximum permissible conductor temperature under normal operating conditions	+180 °C
Maximum temperature of objects it can come into contact with	+180 °C
Marking	according to EN 50525-1 art. 6

H05SS-F Heat-Resistant Cables for General Purposes, with Flexible Copper Conductors and Insulation and Sheath of Cross-Linked Silicone Rubber, Rated Uo/U: 300/500 V

Nominal cross-section of the copper conductor	Insulation thickness nominal value	Sheath thickness nominal value	Average exterior dimensions		Maximal electrical resistance at 20 °C
			Lower limit	Upper limit	
N x mm²	(mm)	(mm)	(mm)	(mm)	Ω/km
2 x 0.75	0.6	0.8	5.7	7.4	26.0
2 x 1.0	0.6	0.9	6.1	8.0	19.5
2 x 1.5	0.8	1.0	7.6	9.8	13.3
2 x 2.5	0.9	1.1	9.0	11.6	7.98
3 x 0.75	0.6	0.9	6.2	8.1	26.0
3 x 1.0	0.6	0.9	6.5	8.5	19.5
3 x 1.5	0.8	1.0	9.0	10.4	13.3
3 x 2.5	0.9	1.1	9.6	12.4	7.98
3 x 4.0	1.0	1.2	11.3	14.5	4.95
3 x 6.0	1.0	1.4	12.8	16.3	3.30
4 x 0.75	0.6	0.9	6.8	8.8	26.0
4 x 1.0	0.6	0.9	7.1	9.3	19.5
4 x 1.5	0.8	1.1	9.0	11.6	13.3
4 x 2.5	0.9	1.2	10.7	13.8	7.98
4 x 4.0	1.0	1.3	12.7	16.2	4.95
4 x 6.0	1.0	1.5	14.2	18.1	3.30
5 x 0.75	0.6	1.0	7.6	9.9	26.0
5 x 1.0	0.6	1.0	8.0	10.3	19.5
5 x 1.5	0.8	1.1	9.8	12.7	13.3
5 x 2.5	0.9	1.3	11.9	15.3	7.98

NOTE : All dimensions are subject to a manufacturing tolerance of ±5%.

H05SJ-K Heat-Resistant Cables for General Purposes, with Flexible Copper Conductor, Insulated with Cross-Linked Silicone Rubber, and Outer Fiber Glass Braids, Rated Voltage Uo/U: 300/500 V

Section:

RoHS COMPLIANT

HALOGEN FREE

Packing:

Coil | Carton Box | Plywood Drum | Wood Drum | Plastic Spool

Construction

1 – Flexible copper conductor class 5, according to EN 60228

2 – Cross-linked silicone rubber insulation type EI2 according to EN 50363-1, heat resistant

3 – Treated glass fibre braid, according to EN 50525-1, art.

Technical data

Reference standard	EN 50525-2-41
Nominal operating voltage Uo/U	300/500 V
Test voltage	according to EN 50395, 5 kVDC, in water, for 5 minutes
Resistance to flame propagation	according to EN 60332-1-2
Ambient temperature when installing the cable	- 10 °C ÷ +50 °C
Ambient temperature during cable operation	- 60 °C ÷ +180 °C
Maximum permissible conductor temperature under normal operating conditions	+180 °C
Maximum temperature of objects it can come into contact with	+180 °C
Marking	according to EN 50525-1 art. 6

H05SJ-K Heat-Resistant Cables for General Purposes, with Flexible Copper Conductor, Insulated with Cross-Linked Silicone Rubber, and Outer Fiber Glass Braids, Rated Voltage Uo/U: 300/500 V

Technical data

Reference standard	EN 50525-2-41
Nominal operating voltage Uo/U	300/500 V
Test voltage	according to EN 50395, 5 kVDC, in water, for 5 minutes
Resistance to flame propagation	according to EN 60332-1-2
Ambient temperature when installing the cable	- 10 °C ÷ +50 °C
Ambient temperature during cable operation	- 60 °C ÷ +180 °C
Maximum permissible conductor temperature under normal operating conditions	+180 °C
Maximum temperature of objects it can come into contact with	+180 °C
Marking	according to EN 50525-1 art. 6

H05SJ-K Heat-Resistant Cables for General Purposes, with Flexible Copper Conductor, Insulated with Cross-Linked Silicone Rubber, and Outer Fiber Glass Braids, Rated Voltage Uo/U: 300/500 V

Nominal cross-section of the copper conductor	Insulation thickness nominal value	Average exterior dimensions		Maximal electrical resistance at 20 °C
		Lower limit	Upper limit	
(mm^2)	(mm)	(mm)	(mm)	Ω/km
0.5	0.6	2.6	3.3	39
0.75	0.6	2.8	3.5	26.0
1.0	0.6	2.9	3.7	19.5
1.5	0.7	3.4	4.2	13.3
2.5	0.8	4.0	5.0	7.98
4.0	0.8	4.5	5.6	4.95
6.0	0.8	5.0	6.2	3.30
10.0	1.0	6.2	7.8	1.91
16.0	1.0	7.3	9.1	1.21
25.0	1.2	9.0	11.3	0.780
35.0	1.2	10.3	12.8	0.554
50.0	1.4	11.7	14.6	0.386
70.0	1.4	13.8	17.3	0.272
95.0	1.6	15.6	19.6	0.206

NOTE : All dimensions are subject to a manufacturing tolerance of ±5%.

H05SJ-U Heat-Resistant Cables for General Purposes, with Rigid Copper Conductor Insulated with Cross-Linked Silicone Rubber, with Outer Fiber Glass Braids, Rated Voltage Uo/U: 300/500 V

Section:

RoHS COMPLIANT

HALOGEN FREE

Packing:

Coil | Carton Box | Plywood Drum | Wood Drum | Plastic Spool

Construction

1 – Rigid copper conductor class 1, according to EN 60228

2 – Cross-linked silicone rubber insulation type EI2 according to EN 50363-1, heat resistant

3 – Treated glass fibre braid, according to EN 50525-1, art.5.5.7

Technical data

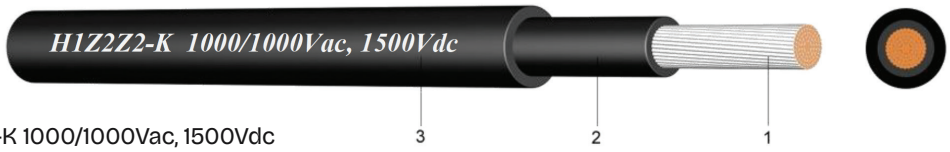
Reference standard	EN 50525-2-41
Nominal operating voltage Uo/U	300/500 V
Test voltage	according to EN 50395, 5 kVDC, in water, for 5 minutes
Resistance to flame propagation	according to EN 60332-1-2
Ambient temperature when installing the cable	- 10 °C ÷ +50 °C
Ambient temperature during cable operation	- 60 °C ÷ +180 °C
Maximum permissible conductor temperature under normal operating conditions	+180 °C
Maximum temperature of objects it can come into contact with	+180 °C
Marking	according to EN 50525-1 art. 6

H05SJ-U Heat-Resistant Cables for General Purposes, with Rigid Copper Conductor Insulated with Cross-Linked Silicone Rubber, with Outer Fiber Glass Braids, Rated Voltage Uo/U: 300/500 V

Nominal cross-section of the copper conductor	Insulation thickness nominal value	Average exterior dimensions		Maximal electrical resistance at 20 °C
		Lower limit	Upper limit	
(mm²)	(mm)	(mm)	(mm)	Ω/km
1.0	0.6	2.8	3.5	18.1
1.5	0.7	3.2	4.0	12.1
2.5	0.8	3.8	4.7	7.41
4.0	0.8	4.2	5.3	4.61
6.0	0.8	4.7	5.9	3.08
10.0	1.0	6.0	7.4	1.83

NOTE : All dimensions are subject to a manufacturing tolerance of ±5%.

Cables for Use in Photovoltaic Systems, Resistant to Extreme Temperatures, with Insulation and Sheath of Cross-Linked Silicone Rubber, Rated Voltage Uo/U: 1000/1000 Vac, 1500 Vdc, (Umax: 1800 V)



Marking: H1Z2Z2-K 1000/1000Vac, 1500Vdc

Section:

Packing:

Coil | Plywood Drum | Wood Drum

Construction

1 – Flexible tinned copper conductor class 5, according to EN 60228

2 – Crosslinked silicone rubber insulation type EI2 according to EN 50363-1, heat-resistant, halogen-free, with increased flame retardancy and reduced smoke emission

3 – Crosslinked silicone rubber sheath type EM9 according to EN 50363-2-1heat-resistant, halogen-free, with increased flame retardancy and reduced smoke emission

Cables for Use in Photovoltaic Systems, Resistant to Extreme Temperatures, with Insulation and Sheath of Cross-Linked Silicone Rubber, Rated Voltage Uo/U: 1000/1000 Vac, 1500 Vdc, (Umax: 1800 V)

Technical data

Reference standard	SR EN 50618:2015
Nominal operating voltage Uo/U	1000/1000 Vac, 1500 Vdc
Test voltage	according to EN 50395, 5 kVDC, in water, for 5 minutes
Resistance to flame propagation	according to EN 60332-1-2
Resistance to ozon	according to SR EN 50396
Resistance to UV radiation	according to SR EN 50396
Thermal endurance	according to SR EN 60216-1
Ambient temperature when installing the cable	- 10 °C ÷ +50 °C
Ambient temperature during cable operation	- 60 °C ÷ +180 °C
Maximum permissible conductor temperature under normal operating conditions	+180 °C
Maximum temperature of objects it can come into contact with	+180 °C
Marking	according to SR EN 60216-1
Minimum bending radius	4 x outer diameter of the cable
Available colors	black, red, blue

Cables for Use in Photovoltaic Systems, Resistant to Extreme Temperatures, with Insulation and Sheath of Cross-Linked Silicone Rubber, Rated Voltage Uo/U: 1000/1000 Vac, 1500 Vdc, (Umax: 1800 V)

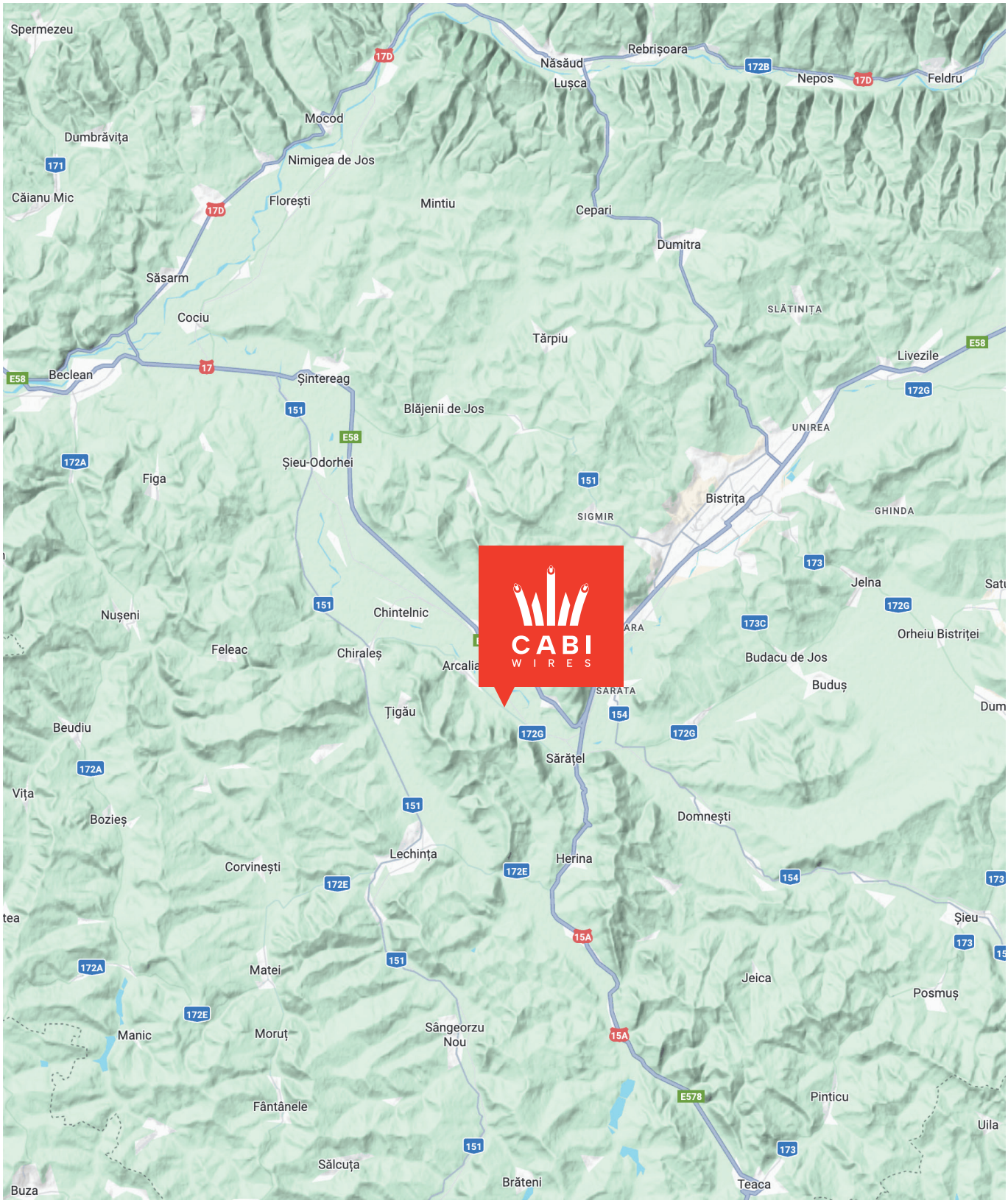
Nominal cross-section of the copper conductor	Average exterior dimensions		Maximal electrical resistance at 20 °C
	Lower limit	Upper limit	
(mm²)	(mm)	(mm)	Ω/km
2.5	4.9	5.3	8.21
4	5.4	5.8	5.09
6	5.9	6.3	3.39
10	7.0	7.4	1.95
16	8.5	9.2	1.24
25	10.2	10.9	0.795
35	11.3	12.0	0.565

NOTE : All dimensions are subject to a manufacturing tolerance of ±5%.

Cabi Wires

Address

Str. Castelului 13, Arcalia,
Bistrița, 427296, Romania



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