

BI-FLEX[®] Heavy Duty Rubber Cable



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H05RN-F Medium Stress

EPR/CM 60°C • 300/500 Volts • Heat Oil and Flame Retardant, Abrasion Resistance, Good impact strength and Weatherproof
(Rising to 90°C with fixed protections)

CONSTRUCTION :

- : Class 5 flexible annealed copper
- : Lead-Free EPR Insulation type EI4
- : Cores laid up
- : CM outer jacket type EM2

TECHNICAL DATA :

- : Rubber insulation to IEC 60245-4
- : Temperature range -30°C to +60°C
- : Working voltage 300/500 V
- : Heat oil and flame retardant
- : Resistance to weathering, sunlight and ozone
- : Water and Abrasion resistance

APPLICATION RANGE :

A medium rubber cable suited for use in;

- Power tools and workshop equipment for medium stress
- Resist to heat, flame, oil, petrol, influence of ozone, gases and oxygen



CABLE PARAMETER				CABLE PARAMETER			
No. cores + cross-sec.	Nominal thickness of insulation	Outer Ø mm.	Weight approx. kg/km	No. cores + cross-sec.	Nominal thickness of insulation	Outer Ø mm.	Weight approx. kg/km
2 x 0.75	0.6	5.7 – 7.4	66	4 x 0.75	0.6	6.8 – 8.8	78
2 x 1	0.6	6.1 – 8.0	74	4 x 1	0.6	7.1 – 9.3	98
2 x 1.5	0.8	7.6 – 9.8	104	4 x 1.5	0.8	9.0 – 11.6	151
2 x 2.5	0.9	9.0 – 11.6	145	4 x 2.5	0.9	10.7 – 13.8	221
3 x 0.75	0.6	6.2 – 8.1	77	5 x 0.75	0.6	7.6 – 9.9	99
3 x 1	0.6	6.5 – 8.5	89	5 x 1	0.6	8.0 – 10.3	137
3 x 1.5	0.8	8.0 – 10.4	121	5 x 1.5	0.8	9.8 – 12.7	183
3 x 2.5	0.9	9.6 – 12.4	177	5 x 2.5	0.9	11.9 – 15.3	274

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E-mail: sales@biflexcable.com , Website: www.biflexcable.com

H07RN-F Heavy Duty

EPR/CM 60°C • 450/750 Volts • Heat Oil and Flame Retardant, Abrasion Resistance, Good impact strength and Weatherproof
(Rising to 90°C with fixed protections)

CONSTRUCTION :

- : Class 5 flexible annealed copper
- : Lead-Free EPR Insulation type EI4
- : Cores laid up
- : CM outer jacket type EM2

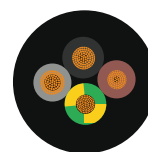
TECHNICAL DATA :

- : Heavy duty rubber cable to IEC 60245-4
- : Temperature range -30°C to +60°C
- : Working voltage 450/750 V
- : Heat oil and flame retardant
- : Resistance to weathering, sunlight and ozone
- : Water and Abrasion resistance

APPLICATION RANGE :

Use as a heavy duty cable in;

- Larger power tools and heavy machinery as well as in agriculture
- Both dry and damp areas as well as in the open air and in the wet



CABLE PARAMETER				CABLE PARAMETER			
No. cores + cross-sec.	Nominal thickness of insulation	Outer Ø mm.	Weight approx. kg/km	No. cores + cross-sec.	Nominal thickness of insulation	Outer Ø mm.	Weight approx. kg/km
1 x 1.5	0.8	5.7 – 7.1	52	2 x 1	0.8	7.7 – 10.0	94
1 x 2.5	0.9	6.3 – 7.9	67	2 x 1.5	0.8	8.5 – 11.0	120
1 x 4	1.0	7.2 – 9.0	92	2 x 2.5	0.9	10.2 – 13.1	173
1 x 6	1.0	7.9 – 9.8	119	2 x 4	1.0	11.8 – 15.1	239
1 x 10	1.2	9.5 – 11.9	185	2 x 6	1.0	13.1 – 16.8	313
1 x 16	1.2	10.8 – 13.4	258	2 x 10	1.2	17.7 – 22.6	563
1 x 25	1.4	12.7 – 15.8	375	2 x 16	1.2	20.2 – 25.7	830
1 x 35	1.4	14.3 – 17.9	485	2 x 25	1.4	24.3 – 30.7	1211
1 x 50	1.6	16.5 – 20.6	669	3 x 1	0.8	8.3 – 10.7	117
1 x 70	1.6	18.6 – 23.3	892	3 x 1.5	0.8	9.2 – 11.9	147
1 x 95	1.8	20.8 – 26.0	1162	3 x 2.5	0.9	10.9 – 14.0	203
1 x 120	1.8	22.8 – 28.6	1436	3 x 4	1.0	12.7 – 16.2	297
1 x 150	2.0	25.2 – 31.4	1748	3 x 6	1.0	14.1 – 18.0	390
1 x 185	2.2	27.6 – 34.4	2142	3 x 10	1.2	19.1 – 24.2	705
1 x 240	2.4	30.6 – 38.3	2698	3 x 16	1.2	21.8 – 27.6	1031
1 x 300	2.6	33.5 – 41.9	3348	3 x 25	1.4	26.1 – 33.0	1512
1 x 400	2.8	37.4 – 46.8	4293	3 x 35	1.4	29.3 – 37.1	1907
1 x 500	3.0	41.3 – 52.0	5262	3 x 50	1.6	34.1 – 42.9	2651

CABLE PARAMETER			
No. cores + cross-sec.	Nominal thickness of insulation	Outer Ø mm.	Weight approx. kg/km
4 x 1	0.8	9.2 – 11.9	142
4 x 1.5	0.8	10.2– 13.1	180
4 x 2.5	0.9	12.1 – 15.5	260
4 x 4	1.0	14.0 – 17.9	336
4 x 6	1.0	15.7 – 20.0	449
4 x 10	1.2	20.9 – 26.5	883
4 x 16	1.2	23.8 – 30.1	1138
4 x 25	1.4	28.9 – 36.6	1714
4 x 35	1.4	32.5 - 41.1	2204
5 x 1	0.8	10.2 – 13.1	162
5 x 1.5	0.8	11.2– 14.4	204
5 x 2.5	0.9	13.3 – 17.0	297
5 x 4	1.0	15.6 – 19.9	422
5 x 6	1.0	17.5 – 22.2	567
5 x 10	1.2	22.9 – 29.1	1010
5 x 16	1.2	26.4 – 33.3	1400
5 x 25	1.4	32.0 – 40.4	2096

H07BN4-F Extra Heavy Duty

EPR/CM 90°C • 450/750 Volts • Heat Oil and Flame Retardant, Abrasion Resistance, Good impact strength and Weatherproof

CONSTRUCTION :

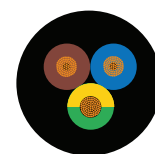
- : Class 5 flexible annealed copper
- : Lead-Free EPR Insulation type EI7
- : Cores laid up
- : Special CM outer jacket type EM7

TECHNICAL DATA :

- : Extra Heavy duty rubber cable to EN 50525-2-21
- : Temperature range -40°C to +90°C
- : Working voltage 450/750 V
- : Heat oil and flame retardant
- : Resistance to weathering, sunlight and ozone
- : Abrasion resistance

APPLICATION RANGE :

- Use in arduous industrial environments where good flexibility and resistance to mechanical abrasion is essential, such as heavy-duty connecting of equipment between pumps and generators, and for temporary power generation
- It can be used up to 1000V in alternative current for protected static installations and for connecting motors in lifting appliances
- It is widely used with the Building & Construction industry, as well as in Renewable Energy, and Water Treatment



CABLE PARAMETER				CABLE PARAMETER			
No. cores + cross-sec.	Nominal thickness of insulation	Outer Ø mm.	Weight approx. kg/km	No. cores + cross-sec.	Nominal thickness of insulation	Outer Ø mm.	Weight approx. kg/km
1 x 1.5	0.8	5.7 – 7.1	52	2 x 1	0.8	7.7 – 10.0	94
1 x 2.5	0.9	6.3 – 7.9	67	2 x 1.5	0.8	8.5 – 11.0	120
1 x 4	1.0	7.2 – 9.0	92	2 x 2.5	0.9	10.2 – 13.1	173
1 x 6	1.0	7.9 – 9.8	119	2 x 4	1.0	11.8 – 15.1	239
1 x 10	1.2	9.5 – 11.9	185	2 x 6	1.0	13.1 – 16.8	313
1 x 16	1.2	10.8 – 13.4	258	2 x 10	1.2	17.7 – 22.6	563
1 x 25	1.4	12.7 – 15.8	375	2 x 16	1.2	20.2 – 25.7	830
1 x 35	1.4	14.3 – 17.9	485	2 x 25	1.4	24.3 – 30.7	1211
1 x 50	1.6	16.5 – 20.6	669	3 x 1	0.8	8.3 – 10.7	117
1 x 70	1.6	18.6 – 23.3	892	3 x 1.5	0.8	9.2 – 11.9	147
1 x 95	1.8	20.8 – 26.0	1162	3 x 2.5	0.9	10.9 – 14.0	203
1 x 120	1.8	22.8 – 28.6	1436	3 x 4	1.0	12.7 – 16.2	297
1 x 150	2.0	25.2 – 31.4	1748	3 x 6	1.0	14.1 – 18.0	390
1 x 185	2.2	27.6 – 34.4	2142	3 x 10	1.2	19.1 – 24.2	705
1 x 240	2.4	30.6 – 38.3	2698	3 x 16	1.2	21.8 – 27.6	1031
1 x 300	2.6	33.5 – 41.9	3348	3 x 25	1.4	26.1 – 33.0	1512
1 x 400	2.8	37.4 – 46.8	4293	3 x 35	1.4	29.3 – 37.1	1907
1 x 500	3.0	41.3 – 52.0	5262	3 x 50	1.6	34.1 – 42.9	2651

CABLE PARAMETER			
No. cores + cross-sec.	Nominal thickness of insulation	Outer Ø mm.	Weight approx. kg/km
4 x 1	0.8	9.2 – 11.9	142
4 x 1.5	0.8	10.2– 13.1	180
4 x 2.5	0.9	12.1 – 15.5	260
4 x 4	1.0	14.0 – 17.9	336
4 x 6	1.0	15.7 – 20.0	449
4 x 10	1.2	20.9 – 26.5	883
4 x 16	1.2	23.8 – 30.1	1138
4 x 25	1.4	28.9 – 36.6	1714
4 x 35	1.4	32.5 – 41.1	2204
5 x 1	0.8	10.2 – 13.1	162
5 x 1.5	0.8	11.2– 14.4	204
5 x 2.5	0.9	13.3 – 17.0	297
5 x 4	1.0	15.6 – 19.9	422
5 x 6	1.0	17.5 – 22.2	567
5 x 10	1.2	22.9 – 29.1	1010
5 x 16	1.2	26.4 – 33.3	1400
5 x 25	1.4	32.0 – 40.4	2096

H05BB-F Halogen Free Weather Resistance

EPR/EPR -40°C to +90°C • 300/500 Volts • Resistance to weathering, sunlight and ozone, Acid and Solvent resistance

CONSTRUCTION :

- : Class 5 flexible annealed copper
- : Lead-Free EPR Insulation type EI6
- : Cores laid up
- : EPR outer jacket type EM6

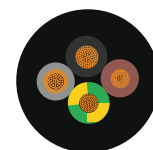
TECHNICAL DATA :

- : Cold resistant rubber cable to EN 50525-2-21
- : Temperature range -40°C to +90°C
- : Working voltage 300/500 V
- : Low and high temperature resistance
- : Resistance to weathering, sunlight and ozone
- : Solvent resistance
- : Acid resistance

APPLICATION RANGE :

These insulated and EPR (ethylene-propylene rubber) sheathed electric cables can be used either in;

- Dry, humid or wet places, in weather conditions and under weak mechanical stress, for example power supply to manual equipment in industrial plants, heating plates, portable lamps, electrical tools such as drilling machines, household-appliances, building and farming equipment etc.
- They are also suitable for car heating in cold countries, as well as caravans and camping equipment



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CABLE PARAMETER				CABLE PARAMETER			
No. cores + cross-sec.	Nominal thickness of insulation	Outer Ø mm.	Weight approx. kg/km	No. cores + cross-sec.	Nominal thickness of insulation	Outer Ø mm.	Weight approx. kg/km
2 x 0.75	0.6	5.7 – 7.4	66	4 x 0.75	0.6	6.8 – 8.8	78
2 x 1	0.6	6.1 – 8.0	74	4 x 1	0.6	7.1 – 9.3	98
2 x 1.5	0.8	7.6 – 9.8	104	4 x 1.5	0.8	9.0 – 11.6	151
2 x 2.5	0.9	9.0 – 11.6	145	4 x 2.5	0.9	10.7 – 13.8	221
3 x 0.75	0.6	6.2 – 8.1	77	5 x 0.75	0.6	7.6 – 9.9	99
3 x 1	0.6	6.5 – 8.5	89	5 x 1	0.6	8.0 – 10.3	137
3 x 1.5	0.8	8.0 – 10.4	121	5 x 1.5	0.8	9.8 – 12.7	183
3 x 2.5	0.9	9.6 – 12.4	177	5 x 2.5	0.9	11.9 – 15.3	274

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H07BB-F Halogen Free Weather Resistance

EPR/EPR -40°C to +90°C • 450/750 Volts • Resistance to weathering, sunlight and ozone, Acid and Solvent resistance

CONSTRUCTION :

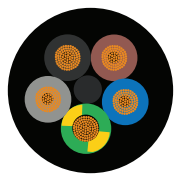
- : Class 5 flexible annealed copper
- : Lead-Free EPR Insulation type EI6
- : Cores laid up
- : EPR outer jacket type EM6

TECHNICAL DATA :

- : Cold resistant rubber cable to EN 50525-2-21
- : Temperature range -40°C to +90°C
- : Working voltage 450/750 V
- : Low and high temperature resistance
- : Resistance to weathering, sunlight and ozone
- : Solvent resistance
- : Acid resistance

APPLICATION RANGE :

- For indoors and outdoors, always movement working etc, temporary field or permanent site such as lift, crane, pump
- Exceptional high flexible even at High and very Low temperature



CABLE PARAMETER				CABLE PARAMETER			
No. cores + cross-sec.	Nominal thickness of insulation	Outer Ø mm.	Weight approx. kg/km	No. cores + cross-sec.	Nominal thickness of insulation	Outer Ø mm.	Weight approx. kg/km
1 x 1.5	0.8	5.7 – 7.1	52	2 x 1	0.8	7.7 – 10.0	94
1 x 2.5	0.9	6.3 – 7.9	67	2 x 1.5	0.8	8.5 – 11.0	120
1 x 4	1.0	7.2 – 9.0	92	2 x 2.5	0.9	10.2 – 13.1	173
1 x 6	1.0	7.9 – 9.8	119	2 x 4	1.0	11.8 – 15.1	239
1 x 10	1.2	9.5 – 11.9	185	2 x 6	1.0	13.1 – 16.8	313
1 x 16	1.2	10.8 – 13.4	258	2 x 10	1.2	17.7 – 22.6	563
1 x 25	1.4	12.7 – 15.8	375	2 x 16	1.2	20.2 – 25.7	830
1 x 35	1.4	14.3 – 17.9	485	2 x 25	1.4	24.3 – 30.7	1211
1 x 50	1.6	16.5 – 20.6	669	3 x 1	0.8	8.3 – 10.7	117
1 x 70	1.6	18.6 – 23.3	892	3 x 1.5	0.8	9.2 – 11.9	147
1 x 95	1.8	20.8 – 26.0	1162	3 x 2.5	0.9	10.9 – 14.0	203
1 x 120	1.8	22.8 – 28.6	1436	3 x 4	1.0	12.7 – 16.2	297
1 x 150	2.0	25.2 – 31.4	1748	3 x 6	1.0	14.1 – 18.0	390
1 x 185	2.2	27.6 – 34.4	2142	3 x 10	1.2	19.1 – 24.2	705
1 x 240	2.4	30.6 – 38.3	2698	3 x 16	1.2	21.8 – 27.6	1031
1 x 300	2.6	33.5 – 41.9	3348	3 x 25	1.4	26.1 – 33.0	1512
1 x 400	2.8	37.4 – 46.8	4293	3 x 35	1.4	29.3 – 37.1	1907
1 x 500	3.0	41.3 – 52.0	5262	3 x 50	1.6	34.1 – 42.9	2651

CABLE PARAMETER			
No. cores + cross-sec.	Nominal thickness of insulation	Outer Ø mm.	Weight approx. kg/km
4 x 1	0.8	9.2 – 11.9	142
4 x 1.5	0.8	10.2– 13.1	180
4 x 2.5	0.9	12.1 – 15.5	260
4 x 4	1.0	14.0 – 17.9	336
4 x 6	1.0	15.7 – 20.0	449
4 x 10	1.2	20.9 – 26.5	883
4 x 16	1.2	23.8 – 30.1	1138
4 x 25	1.4	28.9 – 36.6	1714
4 x 35	1.4	32.5 - 41.1	2204
5 x 1	0.8	10.2 – 13.1	162
5 x 1.5	0.8	11.2– 14.4	204
5 x 2.5	0.9	13.3 – 17.0	297
5 x 4	1.0	15.6 – 19.9	422
5 x 6	1.0	17.5 – 22.2	567
5 x 10	1.2	22.9 – 29.1	1010
5 x 16	1.2	26.4 – 33.3	1400
5 x 25	1.4	32.0 – 40.4	2096

H05RR-F Ultra Flexible Natural rubber

EPR/NR 60°C • 300/500 Volts • Excellent tear resistance, Abrasion resistance

CONSTRUCTION :

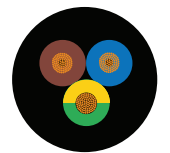
- : Class 5 flexible annealed copper
- : Lead-Free EPR Insulation type EI4
- : Cores laid up
- : Natural rubber outer jacket type EM3

TECHNICAL DATA :

- : Tough rubber cable to EN 50525-2-21
- : Temperature range -25°C to +60°C
- : Working voltage 300/500 V
- : Excellent tear resistance
- : Abrasion resistance
- : Ultra flexible

APPLICATION RANGE :

- A light rubber cable suited for use in power tools and workshop equipment for light to medium stress in dry and damp areas



CABLE PARAMETER				CABLE PARAMETER			
No. cores + cross-sec.	Nominal thickness of insulation	Outer Ø mm.	Weight approx. kg/km	No. cores + cross-sec.	Nominal thickness of insulation	Outer Ø mm.	Weight approx. kg/km
2 x 0.75	0.6	5.7 – 7.4	61	4 x 0.75	0.6	6.8 – 8.8	78
2 x 1	0.6	6.1 – 8.0	73	4 x 1	0.6	7.1 – 9.3	98
2 x 1.5	0.8	7.6 – 9.8	98	4 x 1.5	0.8	9.0 – 11.6	150
2 x 2.5	0.9	9.0 – 11.6	145	4 x 2.5	0.9	10.7 – 13.8	221
3 x 0.75	0.6	6.2 – 8.1	75	5 x 0.75	0.6	7.6 – 9.9	99
3 x 1	0.6	6.5 – 8.5	86	5 x 1	0.6	8.0 – 10.3	137
3 x 1.5	0.8	8.0 – 10.4	120	5 x 1.5	0.8	9.8 – 12.7	178
3 x 2.5	0.9	9.6 – 12.4	170	5 x 2.5	0.9	11.9 – 15.3	272

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H07ZZ-F Halogen Free Low Smoke Zero Halogen

XLPO/XLPO 90°C • 450/750 Volts • Flame retardant, Low combustibility, Low fume level

CONSTRUCTION :

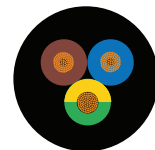
- : Class 5 flexible annealed copper
- : LSZH cross-linked insulation compound Type EI8
- : Cores laid up
- : LSZH cross-linked Jacket compound Type EM8

TECHNICAL DATA :

- : Special core/jacket insulation to EN 50525-3-21
- : Temperature range -20°C to +90°C
- : Working voltage 450/750 V
- : Halogen free
- : Flame retardant
- : Low combustibility
- : Low fume level

APPLICATION RANGE :

- It is suitable for installation both indoors and outdoors. It has a Low Smoke Zero Halogen (LSZH) insulation and sheath, making it suitable for installation in buildings or industrial plants with a high density of people, and where fire, smoke emission and toxic fumes create a potential threat to life and equipment
- It is used across a broad range of applications across almost all industry sectors including Airports, Automation & Process-Control, Communications & Telecommunication, Marine & Offshore, Oil, Gas & Petrochemicals, Renewable Energy, and Water Treatment



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CABLE PARAMETER				CABLE PARAMETER			
No. cores + cross-sec.	Nominal thickness of insulation	Outer Ø mm.	Weight approx. kg/km	No. cores + cross-sec.	Nominal thickness of insulation	Outer Ø mm.	Weight approx. kg/km
1 x 1.5	0.8	5.7 – 7.1	52	2 x 1	0.8	7.7 – 10.0	94
1 x 2.5	0.9	6.3 – 7.9	67	2 x 1.5	0.8	8.5 – 11.0	120
1 x 4	1.0	7.2 – 9.0	92	2 x 2.5	0.9	10.2 – 13.1	173
1 x 6	1.0	7.9 – 9.8	119	2 x 4	1.0	11.8 – 15.1	239
1 x 10	1.2	9.5 – 11.9	185	2 x 6	1.0	13.1 – 16.8	313
1 x 16	1.2	10.8 – 13.4	258	2 x 10	1.2	17.7 – 22.6	563
1 x 25	1.4	12.7 – 15.8	375	2 x 16	1.2	20.2 – 25.7	830
1 x 35	1.4	14.3 – 17.9	485	2 x 25	1.4	24.3 – 30.7	1211
1 x 50	1.6	16.5 – 20.6	669	3 x 1	0.8	8.3 – 10.7	117
1 x 70	1.6	18.6 – 23.3	892	3 x 1.5	0.8	9.2 – 11.9	147
1 x 95	1.8	20.8 – 26.0	1162	3 x 2.5	0.9	10.9 – 14.0	203
1 x 120	1.8	22.8 – 28.6	1436	3 x 4	1.0	12.7 – 16.2	297
1 x 150	2.0	25.2 – 31.4	1748	3 x 6	1.0	14.1 – 18.0	390
1 x 185	2.2	27.6 – 34.4	2142	3 x 10	1.2	19.1 – 24.2	705
1 x 240	2.4	30.6 – 38.3	2698	3 x 16	1.2	21.8 – 27.6	1031
1 x 300	2.6	33.5 – 41.9	3348	3 x 25	1.4	26.1 – 33.0	1512
1 x 400	2.8	37.4 – 46.8	4293	3 x 35	1.4	29.3 – 37.1	1907
1 x 500	3.0	41.3 – 52.0	5262	3 x 50	1.6	34.1 – 42.9	2651

CABLE PARAMETER			
No. cores + cross-sec.	Nominal thickness of insulation	Outer Ø mm.	Weight approx. kg/km
4 x 1	0.8	9.2 – 11.9	142
4 x 1.5	0.8	10.2– 13.1	180
4 x 2.5	0.9	12.1 – 15.5	260
4 x 4	1.0	14.0 – 17.9	336
4 x 6	1.0	15.7 – 20.0	449
4 x 10	1.2	20.9 – 26.5	883
4 x 16	1.2	23.8 – 30.1	1138
4 x 25	1.4	28.9 – 36.6	1714
4 x 35	1.4	32.5 - 41.1	2204
5 x 1	0.8	10.2 – 13.1	162
5 x 1.5	0.8	11.2– 14.4	204
5 x 2.5	0.9	13.3 – 17.0	297
5 x 4	1.0	15.6 – 19.9	422
5 x 6	1.0	17.5 – 22.2	567
5 x 10	1.2	22.9 – 29.1	1010
5 x 16	1.2	26.4 – 33.3	1400
5 x 25	1.4	32.0 – 40.4	2096

NGFLGÖU Neoprene Flat

EPR/PCP 60°C • 300/500 Volts • Heat Oil and Flame Retardant, Abrasion Resistance, Good impact strength and Weatherproof

CONSTRUCTION :

- : Class 5 flexible annealed copper
- : Rubber insulation compound Type 3GI3
- : Cores laid parallel
- : PCP jacket compound Type 5GM3

TECHNICAL DATA :

- : Neoprene platform to VDE 0250
- : Temperature range -25°C to +60°C
- : Working voltage 300/500 V
- : Test voltage 3000 V
- : Heat oil and flame retardant
- : Resistance to weathering, sunlight and ozone
- : Abrasion resistance

APPLICATION RANGE :

- It is a flexible neoprene rubber flat festoon power and control cable. Mainly used as a trailing cable for overhead crane installations, floor conveyor systems, elevator control cables, shelf control units and in material handling systems
- The flat construction allows these cables to be stacked for applications where space is at a minimum and require smaller bending radius over that of round cables
- Suitable for installations in dry and damp rooms
- The robust neoprene rubber jacket is extensively oil, fat, acid, lye and weather resistant



CABLE PARAMETER				CABLE PARAMETER			
No. cores + cross-sec.	Nominal thickness of insulation	Outer Ø mm.	Weight approx. kg/km	No. cores + cross-sec.	Nominal thickness of insulation	Outer Ø mm.	Weight approx. kg/km
4 x 1.5	0.8	17.0 x 6.4	190	5 x 10	1.2	41.5 x 11.2	985
4 x 2.5	0.9	20.7 x 7.8	280	5 x 16	1.2	50.0 x 13.0	1410
4 x 4	1.0	24.8 x 9.1	395	5 x 25	1.4	60.0 x 16.6	2200
4 x 6	1.0	27.9 x 9.9	540	7 x 1.5	0.8	29.1 x 6.4	300
4 x 10	1.2	33.3 x 11.2	775	7 x 2.5	0.9	33.0 x 7.8	485
4 x 16	1.2	38.7 x 13.0	1110	7 x 4	1.0	39.8 x 9.1	675
4 x 25	1.4	46.0 x 14.7	1465	7 x 6	1.0	45.9 x 9.9	910
4 x 35	1.4	53.2 x 17.6	2175	7 x 10	1.2	155.3 x 11.2	1385
4 x 50	1.6	62.0 x 20.1	3020	7 x 16	1.2	66.0 x 14.0	2345
4 x 70	1.6	71.0 x 23.0	4325	7 x 25	1.4	79.0 x 16.5	3240
5 x 1.5	0.8	21.5 x 6.4	240	7 x 35	1.4	91.0 x 18.2	4140
5 x 2.5	0.9	26.0 x 7.8	355	8 x 1.5	0.8	32.0 x 6.4	340
5 x 4	1.0	32.0 x 9.0	520	8 x 2.5	0.9	38.0 x 7.8	510
5 x 6	1.0	34.7 x 9.9	700	12 x 1.5	0.8	47.5 x 7.0	550
				12 x 2.5	0.9	54.8 x 8.2	795

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H01N2-D HOFR Welding Cable

CSM or equivalent 90°C • 100/100 Volts (450/750 V) • Heat Oil and Flame Retardant, Abrasion Resistance, Good impact strength and weatherproof

CONSTRUCTION :

- : Class 5 flexible annealed copper
- : Separators (paper or synthetic tape)
- : Rubber compound Type EM5

TECHNICAL DATA :

- : Arc-welding cable to BS EN 50525-2-81
- : Temperature range -40°C to +90°C
- : Working voltage 100/100 V (450/750 V)
- : Heat oil and flame retardant
- : Resistance to weathering, sunlight and ozone
- : Abrasion resistance
- : Resistance to heat deformation

APPLICATION RANGE :

- Transmit high currents between the welding generator and the electrode in various applications with a voltage rating of up to 100V including manual or automated welding lines and spot welding
- It is widely used in industries including automotive and ship building



CABLE PARAMETER			
Cross-sec. area (mm ²)	Nominal thickness of insulation	Outer Ø mm.	Weight approx. kg/km
10	2.0	9.0	146
16	2.0	10.5	204
25	2.0	11.5	209
35	2.0	13.0	384
50	2.2	14.5	535
70	2.4	16.5	716
95	2.6	19.7	943
120	2.8	21.6	1235
150	3.0	26.2	1556
185	3.2	27.5	1853
240	3.5	31.0	2350

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NSGAFÖU 1800/3000V

EPR/PCP 90°C • 1800/3000 Volts • Heat Oil and Flame Retardant, Abrasion Resistance, Good impact strength and Weatherproof

CONSTRUCTION :

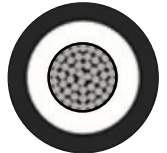
- : Class 5 flexible annealed copper
- : EPR Insulation Type 3GI3
- : PCP jacket compound Type 5GM3

TECHNICAL DATA :

- : Oil resistant single core cable
- : Temperature range Fixed : -40°C to +90°C , Flexed : -25°C to +90°C
- : Minimum Bending Radius Fixed: 4 x overall diameter , Flexed: 5 x overall diameter
- : Working voltage 1800/3000 V
- : Heat oil and flame retardant

APPLICATION RANGE :

- For use in switch cabinets, wiring of devices, trains and buses
- Suitable for laying in dry rooms



CABLE PARAMETER

Cross-sec. area (mm ²)	Nominal thickness of insulation	Outer Ø mm.	Weight approx. kg/km
1.5	30	6.5	60
2.5	41	7.0	70
4	55	7.5	90
6	70	8.5	120
10	98	10.0	180
16	132	11.0	250
25	176	13.0	390
35	218	14.0	470
50	276	15.5	625
70	347	17.0	880
95	416	19.5	1190
120	488	21.5	1430
150	566	23.0	1750
185	644	25.0	2160
240	775	28.0	2534
300	898	32.5	3178

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H05Z1-K / H07Z1-K

Halogen-free single core, for control cabinet

LSZH thermoplastic 70°C • Halogen free flame retardant, Low combustibility, Low fume level

CONSTRUCTION :

- : Class 5 flexible annealed copper
- : LSZH thermoplastic insulation

TECHNICAL DATA :

- : Halogen-free to protect human life acc. EN 50525-3-31
- : Temperature range up to +70°C
- : Flame retardant
- : Low combustibility
- : Low fume level

Voltage Rating (U_o/U)

H05Z1-K - 0.75mm² to 1mm² : 300/500V

H07Z1-K - 1.5mm² to 16mm² : 450/750V

APPLICATION RANGE :

- For wiring of lamps, devices, switchgear cabinets and distribution boxes
- For installation in tubes, on, in and under plaster as well as in closed installation ducts
- For wiring of lamps, devices, switchgear cabinets and distribution boxes



H05Z1-K CABLE PARAMETER

Cross-sec. area (mm ²)	Nominal thickness of insulation (mm)	Outer Ø approx. mm.	Weight approx. kg/km
0.75	0.6	2.4	11
1	0.6	2.6	14

H07Z1-K CABLE PARAMETER

Cross-sec. area (mm ²)	Nominal thickness of insulation (mm)	Outer Ø approx. mm.	Weight approx. kg/km
1.5	0.7	3.1	20
2.5	0.8	3.8	32
4	0.8	4.4	45
6	0.8	4.9	65
10	1.0	6.3	110
16	1.0	7.4	170

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H05Z-K / H07Z-K - LSZH Heat resistant wiring cable

XLPO 90°C • Halogen free flame retardant, Low combustibility, Low fume level

CONSTRUCTION :

- : Class 5 Flexible annealed copper
- : LSZH cross-linked insulation compound Type EI5

TECHNICAL DATA :

- : Fire performance LSZH cable to EN 50525-3-41
- : Temperature range -25°C to +90°C
- : Flame retardant
- : Low combustibility
- : Low fume level

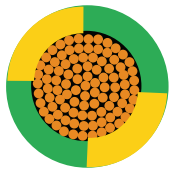
Voltage Rating (Uo/U)

H05Z-K - 0.5mm² to 1mm² : 300/500V

H07Z-K - 1.5mm² to 240mm² : 450/750V

APPLICATION RANGE :

- Ideal for use where smoke and toxic emissions would pose a major hazard in the event of a fire in domestic and commercial environments
- Can be installed in fixed installations in dry or damp premises clipped to surface, on trays or in free air where mechanical damage would not be an issue
- Suitable for laying in conduit where mechanical protection is required



H05Z-K CABLE PARAMETER

Cross-sec. area (mm ²)	Nominal thickness of insulation	Outer Ø approx. mm.	Weight approx. kg/km
0.5	0.6	2.1	8.8
0.75	0.6	2.3	12
1	0.6	2.5	14

H07Z-K CABLE PARAMETER

Cross-sec. area (mm ²)	Nominal thickness of insulation (mm)	Outer Ø approx. mm.	Weight approx. kg/km
1.5	0.7	3.1	20
2.5	0.8	3.8	32
4	0.8	4.4	45
6	0.8	4.9	65
10	1.0	6.3	110
16	1.0	7.4	170
25	1.2	9.5	248
35	1.2	11.0	340
50	1.4	13.0	485
70	1.4	15.0	675
95	1.6	16.9	897
120	1.6	18.8	1110
150	1.8	21.0	1392
185	2.0	23.2	1725
240	2.2	26.5	2230

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H05Z-U / H07Z-U

(Exceeds THW) Low Smoke Zero Halogen Building Wire

XLPO 90°C • Halogen free flame retardant, Low combustibility, Low fume level

CONSTRUCTION :

- : Class 1 Solid plain annealed copper
- : LSZH cross-linked insulation compound Type EI5

TECHNICAL DATA :

- : Halogen free single core building cable to EN 50525-3-41
- : Temperature range -25°C to +90°C
- : Flame retardant
- : Low combustibility
- : Low fume level

Voltage Rating (Uo/U)

H05Z-U - 0.5mm² to 1mm² : 300/500V

H07Z-U - 1.5mm² to 6mm² : 450/750V

APPLICATION RANGE :

- Ideal for use where smoke and toxic emissions would pose a major hazard in the event of a fire in domestic and commercial environments
- Can be installed in fixed installations in dry or damp premises clipped to surface, on trays or in free air where mechanical damage would not be an issue
- Suitable for laying in conduit where mechanical protection is required



H05Z-U CABLE PARAMETER

Cross-sec. area (mm ²)	Nominal thickness of insulation	Outer Ø approx. mm.	Weight approx. kg/km
0.5	0.6	2.1	8.8
0.75	0.6	2.3	12
1	0.6	2.5	14

H07Z-U CABLE PARAMETER

Cross-sec. area (mm ²)	Nominal thickness of insulation (mm)	Outer Ø approx. mm.	Weight approx. kg/km
1.5	0.7	3.1	20
2.5	0.8	3.8	32
4	0.8	4.4	45
6	0.8	4.9	65

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HFFR FLAT

(Exceeds VAF) HFFR building wire

LSZH thermoplastic 60°C • 300/500 Volts • Halogen free flame retardant, Low combustibility, Low fume level

CONSTRUCTION :

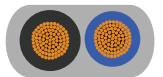
- : Class 1 Solid plain annealed copper
- : Class 2 Stranded circular
- : LSZH thermoplastic insulation compound Type LTS1
- : Cores laid parallel
- : LSZH thermoplastic jacket compound Type LTS2

TECHNICAL DATA :

- : Halogen free single core building cable
- : Temperature range -20°C to +60°C
- : Working voltage 300/500 V
- : Flame retardant
- : Low combustibility
- : Low fume level

APPLICATION RANGE :

- Ideal for use where smoke and toxic emissions would pose a major hazard in the event of a fire in domestic and commercial environments
- Can be installed in fixed installations in dry or damp premises clipped to surface, on trays or in free air where mechanical damage would not be an issue
- Suitable for laying in conduit where mechanical protection is required



CABLE PARAMETER

Cross-sec. area (mm ²)	Number of wires	Nominal thickness of insulation (mm)	Nominal thickness of sheath (mm)	Product Dimensions (mm)	Weight approx. kg/km	AMP
1	1	0.6	0.9	4.7 x 7.4	50	14
1.5	1	0.7	0.9	5.4 x 8.4	70	17
2.5	1	0.8	1.0	6.2 x 9.8	100	23
4	7	0.8	1.1	7.2 x 11.5	150	32
6	7	0.8	1.1	8.0 x 13.0	200	41
10	7	1.0	1.2	9.6 x 16.0	310	56
16	7	1.0	1.3	11.0 x 18.5	450	74

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HFFR FLAT-G

(Exceeds VAF-G)

LSZH thermoplastic 60°C • 300/500 Volts • Halogen free flame retardant, Low combustibility, Low fume level

CONSTRUCTION :

- : Class 1 Solid plain annealed copper
- : Class 2 Stranded circular
- : LSZH thermoplastic insulation compound Type LTS1
- : Cores laid parallel
- : LSZH thermoplastic jacket compound Type LTS2

TECHNICAL DATA :

- : Halogen free flat building cable
- : Temperature range -20°C to +60°C
- : Working voltage 300/500 V
- : Halogen free
- : Flame retardant
- : Low combustibility
- : Low fume level

APPLICATION RANGE :

- Ideal for use where smoke and toxic emissions would pose a major hazard in the event of a fire in domestic and commercial environments
- Can be installed in fixed installations in dry or damp premises clipped to surface, on trays or in free air where mechanical damage would not be an issue
- Suitable for laying in conduit where mechanical protection is required



CABLE PARAMETER

Cross-sec. area (mm ²)	Number of wires	Nominal thickness of insulation (mm)	Nominal thickness of sheath (mm)	Product Dimensions (mm)	Weight approx. kg/km	AMP
1	1	0.6	0.9	4.7 x 9.8	75	14
1.5	1	0.7	0.9	5.4 x 11.5	100	17
2.5	1	0.8	1.0	6.2 x 13.5	150	23
4	7	0.8	1.1	7.2 x 16.5	220	32
6	7	0.8	1.1	8.0 x 18.0	290	41
10	7	1.0	1.2	9.6 x 22.5	460	56
16	7	1.0	1.3	11.0 x 26.5	650	74

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HPN HEATER CORD

(Exceeds VFF)

CM 90°C • 300 Volts • Heat Oil and Flame Retardant, Abrasion Resistance, Good impact strength and Weatherproof

CONSTRUCTION :

- : Class 5 flexible annealed copper
- : Separators (paper or synthetic tape)
- : Special CM outer jacket compound

TECHNICAL DATA :

- : Heater Cord Type HPN to UL62
- : Temperature range -20°C to +90°C
- : Working voltage 300 V
- : Heat oil and flame retardant
- : Resistance to weathering, sunlight and ozone
- : Abrasion resistance

APPLICATION RANGE :

- Portable heaters, Toasters, Irons, Soldering irons and Paint removers
- Other heat-related applications for industrial, commercial and home use



CABLE PARAMETER

AWG Size	No. of Conds.	Stranding	Nominal thickness of insulation (mm)	Product Dimensions (mm)	Weight approx. kg km	Weight approx. Lbs\mft	AMP
18	2	41/0.16	1.140	3.5 x 7.0	45	30	10
16	2	65/0.16	1.140	3.8 x 7.6	58	39	15
16	3	65/0.16	1.140	3.9 x 10.0	75	50	15

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Abbreviations Key for wires according to harmonized requirements

Type of designation and rated voltage	Designation ident	1. Part	2. Part
	harmonized type	H	-
	acknowledged national type	A	
	Rated voltage U₀ / U		
	100 / 100 V	01	
	300 / 300 V	03	
	300 / 500 V	05	
	450 / 750 V	07	
Structure of the wires	Insulation material		
	PVC standard to + 70 °C	V	
	PVC heat resistant to + 90 °C	V2	
	PVC cold resistant to - 25 °C	V3	
	PVC cross- linked	V4	
	natural and /or synthetic rubber to + 60 °C	R	
	ethylene-propylene rubber to + 90 °C	B	
	synthetic rubber (EVA) to + 110 °C	G	
	silicone rubber heat resistant to + 180 °C	S	
	cross-linked halogen free compound	Z	
	halogen free thermoplastic compound	Z1	
	Sheath material		
	PVC standard to + 60 °C	V	
	PVC heat resistant to + 90 °C	V2	
	PVC cold resistant to - 25 °C	V3	
	PVC cross-linked	V4	
	PVC oil resistant	V5	
	polyurethane	Q	
	natural and / or synthetic rubber to + 60 °C	R	
	polychloroprene rubber to + 60 °C	N	
	special polychloroprene rubber compound	N2	
	synthetic rubber (EVA) to + 110 °C	G	
	fibreglass braid	J	
	textile braid	T	
	textile braid with flame retardant compound	T2	
	halogen free thermoplastic compound	Z	
	Spezial constructions		
	divisible flat cable	H	
	indivisible flat cable	H2	
	flat cable acc. to HD 359 with ≥ 3 cores	H6	
	spiral cables	H8	
	supporting element (textile or metal)	D3	
	Core inlet (no load-bearing element)	D5	
	copper braid screen over stranded cores	C4	
	construction of conductor		
	solid	-U	
	stranded	-R	
	fine stranded for fixed installation	-K	
	fine stranded for flexible installation	-F	
	very fine stranded for flexibel installation	-H	
	tinsel cord	-Y	
	fine stranded conductor for welding cables	-D	
	very fine stranded conductor for welding cables	-E	

Examples of construction type abbreviations:

H01N2-D

H - Harmonized Type

01 - 100 / 100 V

N2 - Special Polychloroprene Rubber Compound

D - Fine Stranded Conductor For Welding Cables

H05BB-F

H - Harmonized Type

05 - 300 / 500 V

B - Ethylene-Propylene Rubber To + 90 °C

B - Ethylene-Propylene Rubber To + 90 °C

F - Fine Stranded For Flexible Installation



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