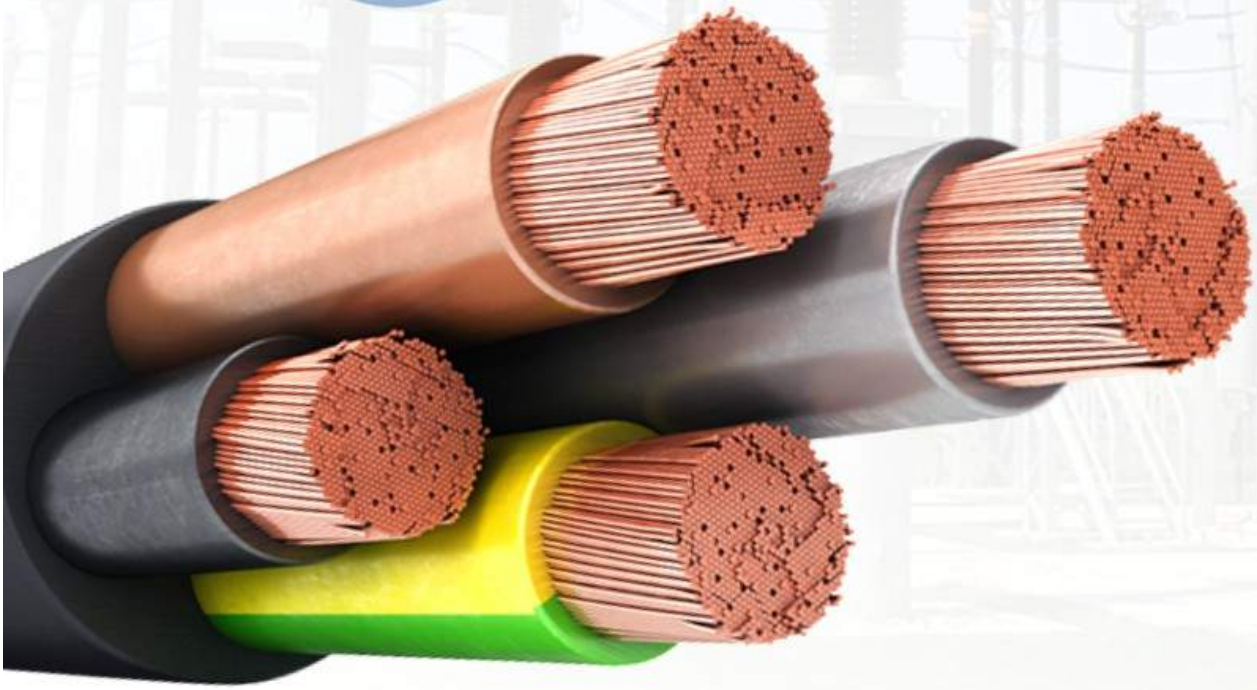
TANO
CABLE

河南泰诺电缆有限公司

HENAN TANO CABLE CO.,LTD.

RUBBER CABLE to HARMONIZED STANDARD

TANO
CABLE



Henan Tano Cable Co., Ltd.(Tano Cable for short), is a leading and professional manufacturer of cable and wire with more than 20 years' history and manufacturing experience, located in Zhengzhou city which is the capital of Henan province, China.

Tano Cable aims at providing integral power solution for international customers. We are working together as one company to provide products and technologies for building, maintaining and advancing the power and information infrastructures that connect the world. We mainly have the following products with strong competitiveness: All Aluminum Conductors (AAC), All Aluminum Alloy Conductors (AAAC), Aluminum Conductors Steel Reinforcement (ACSR) , Aerial Bundled Cables (ABC), building wire, welding cable, control cable, instrument cable, rubber cable, PVC insulated power cable, XLPE insulated power cable up to 500KV, customer-tailored cable and cable accessories, conforming to many different Country or international standard, such as IEC, HAR, BS, DIN, ICEA, ASTM, SABS, AS/NZS, JIS and so on.

Tano Cable pays great importance on the quality. We have strong teams and equipments for both production and inspection. Moreover, we have been awarded many certificates of ISO, CE, SONCAP, others from China and abroad. We keep improving our quality management system to meet the client's final satisfaction.

Tano Cable has provided services to the global clients who working in all areas of the energy, construction, industrial, specialty and communications market, and obtained the client's trust and compliment.

Welcome your any inquiry! Welcome your any visit! Welcome your any contact! We will take our biggest sincerity to be your long-term friend and partner.

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Rubber Cable H05RR-F to Harmonized Standard

APPLICATION

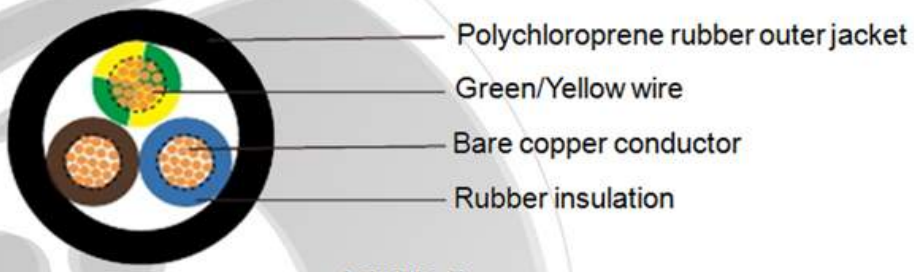
These cables are flexible rubber insulated; rubber jacketed harmonized cord, recommended for use in equipment, which is subject to light and medium stresses in both dry and damp environments. For use with electronics and electrical equipment such as appliances, small hand tools and office equipment They can be found in flat irons, soldering irons, kitchen aids, toasters, stoves and in connections with light commercial electric tools. Also suitable for fixed installation in furniture, decorative coverings, wall partitions and pre-fabricated building parts. Max operating voltage in single or three phase system is Uo/U 300/500 volts. In a direct current system max operating voltage is Uo/U 413/825 volts. Outdoor use is permitted only for a short time. They are ozone resistant, oil & fat resistant.

STANDARD

<HAR> HD22.4 S3, VDE-0282 Part-4, CEI 20-19/4 / 20-35 (EN60332-1),

CE low voltage directive 73/23/EEC & 93/68/EEC., IEC 60245-4, ROHS compliant

CONSTRUCTION



H05RR-F

Fine bare copper strands

Strands to VDE-0295 Class-5, IEC 60228 Class-5

Rubber core insulation EI4 to VDE-0282 Part-1

Color code VDE-0293-308 and HD 186

Green-yellow grounding, 3 conductors and above

Polychloroprene rubber (neoprene) jacket EM3

TECHNICAL DATA

Working voltage: 300/500 volts

Test voltage: 2000 volts

Flexing bending radius: 8 x Ø

Fixed bending radius: 6 x Ø

Temperature range: -30° C to +60° C

Short circuit temperature: +200 ° C

Flame retardant: IEC 60332.1

Insulation resistance: 20 MΩ x km

CONSTRUCTION PARAMETER

AWG	No. of Cores x Nominal Cross Sectional Area	Nominal Thickness of Insulation	Nominal Thickness of Sheath	Nominal Overall Diameter	Nominal Copper Weight	Nominal Weight
	No. x mm2	mm	mm	mm(min-max)	kg/km	kg/km
18(24/32)	2 x 0.75	0.6	0.8	5.7-7.4	14.4	61
18(24/32)	3 x 0.75	0.6	0.9	6.2-8.1	21.6	75
18(24/32)	4 x 0.75	0.6	0.9	6.8-8.8	28.8	94
18(24/32)	5 x 0.75	0.6	1	7.6-9.9	36	110
17(32/32)	2x1	0.6	0.9	6.1-8.0	19	73
17(32/32)	3x1	0.6	0.9	6.5-8.5	29	86
17(32/32)	4x1	0.6	0.9	7.1-9.3	38.4	105
17(32/32)	5x1	0.6	1	8.0-10.3	48	130
16(30/30)	2 x 1.5	0.8	1	7.6-9.8	29	115
16(30/30)	3 x 1.5	0.8	1	8.0-10.4	43	135
16(30/30)	4 x 1.5	0.8	1.1	9.0-11.6	58	165
16(30/30)	5 x 1.5	0.8	1.1	9.8-12.7	72	190
14(50/30)	2 x 2.5	0.9	1.1	9.0-11.6	48	160
14(50/30)	3 x 2.5	0.9	1.1	9.6-12.4	72	191
14(50/30)	4 x 2.5	0.9	1.2	10.7-13.8	96	235
14(50/30)	5 x 2.5	0.9	1.3	11.9-15.3	120	285

Rubber Cable H05RN-F/H05RNH2-F to Harmonized Standard

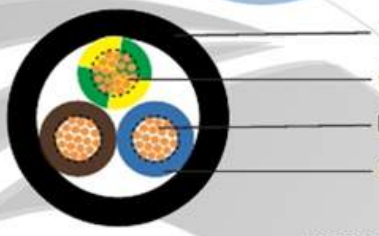
APPLICATION

These cables are flexible, mainly recommended for use in electrical equipment under low stress in dry, damp and wet areas in indoor or outdoor environments. Commonly used for connection of electrical appliances when exposed to low mechanical strain in household, offices and for light utilities. Anywhere where there is minimal physical damage. Also suitable for fixed installation in furniture, decorative coverings, wall partitions and pre-fabricated building parts. Max operating voltage in single or three phase system is Uo/U 318/550 volts. In a direct current system max operating voltage is Uo/U 413/825 volts. They are ozone resistant, oil & fat resistant.

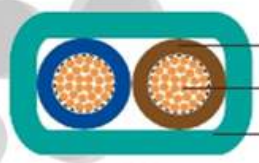
STANDARD

HD22.4 S3, VDE-0282 Part-4, CE low voltage directive 73/23/EEC & 93/68/EEC., IEC 60245-4, ROHS compliant.

CONSTRUCTION



H05RN-F



H05RNH2-F

- Fine bare copper strands

- Strands to VDE-0295 Class-5, IEC 60228 Class-5
- Rubber core insulation EI4 to VDE-0282 Part-1
- Color code VDE-0293-308
- Green-yellow grounding, 3 conductors and above
- Polychloroprene rubber (neoprene) jacket EM2

TECHNICAL CHARACTERISTICS

Working voltage: 300/500 volts

Test voltage: 2000 volts

Flexing bending radius: 7.5 x Ø

Fixed bending radius: 4.0 x Ø

Temperature Range: -30° C to +60° C

Short circuit temperature: +200 ° C

Flame retardant: IEC 60332.1

Insulation resistance: 20 MΩ x km

TECHNICAL PARAMETER

AWG	No. of Cores x Nominal Cross Sectional Area	Nominal Thickness of Insulation	Nominal Thickness of Sheath	Nominal Overall Diameter	Nominal Copper Weight	Nominal Weight
	No. x mm²	mm	mm	mm (min-max)	kg/km	kg/km
H05RN-F						
18(24/32)	2 x 0.75	0.6	0.8	5.7 - 7.4	14.4	80
18(24/32)	3 x 0.75	0.6	0.9	6.2 - 8.1	21.6	95
18(24/32)	4 x 0.75	0.6	0.9	6.8 - 8.8	30	105
17(32/32)	2x1	0.6	0.9	6.1 - 8.0	19	95
17(32/32)	3x1	0.6	0.9	6.5 - 8.5	29	115
17(32/32)	4x1	0.6	0.9	7.1 – 9.2	38	142
16(30/30)	3 x 1.5	0.8	1	8.6 - 11.0	29	105
16(30/30)	4 x 1.5	0.8	1.1	9.5 - 12.2	39	129
16(30/30)	5 x 1.5	0.8	1.1	10.5 - 13.5	48	153
H05RNH2-F						
16(30/30)	2 x 1.5	0.6	0.8	5.25±0.15x13.50±0.30	14.4	80
14(50/30)	2 x 2.5	0.6	0.9	5.25±0.15x13.50±0.30	21.6	95

Rubber Cable H07RN-F to Harmonized Standard

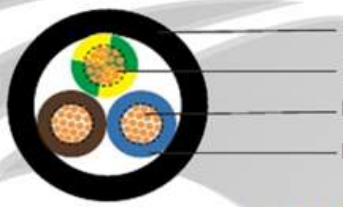
APPLICATION

These cables are designed to provide high flexibility and have the capacity to withstand weather, oils/ greases, mechanical and thermal stresses. Applications include handling equipment, mobile power supplies, worksites, stage and audio visual equipment, port areas and dams. Also suitable for fixed installations on plaster, temporary buildings and residential barracks and for use in drainage and water treatment, cold environments and severe industrial environments. Max operating voltage in single or three phase system is Uo/U 476/825 volts. In a direct current system max operating voltage is Uo/U 619/1238 volts. If in a fixed or protected installation Uo/U is 600/1000 volts. These cables are resistant to flame, acids, and oil penetration.

STANDARD

HD22.4 S3, VDE-0282 Part-4, IEC 60245-4, CE low voltage directive 73/23/EEC & 93/68/EEC., ROHS compliant.

CONSTRUCTION



H07RN-F

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Class-5
- Rubber core insulation EI4 to VDE-0282 Part-1
- Color code VDE-0293-308 and HD 186
- Green-yellow grounding, 3 conductors and above
- Polychloroprene rubber (neoprene) jacket EM2

TECHNICAL CHARACTERISTICS

Working voltage: 450/750 volts

Test voltage: 2500 volts

Flexing bending radius: 6 x Ø

Fixed bending radius: 4.0 x Ø

Flexing Temperature: -25° C to +60° C

Fixed Temperature: -40° C to +60° C

Short circuit temperature: +200 ° C

Flame retardant: IEC 60332.1

Insulation resistance: 20 MΩ x km

TECHNICAL PARAMETER

AWG	No. of Cores x Nominal Cross Sectional Area	Nominal Thickness of Insulation	Nominal Thickness of Sheath	Nominal Overall Diameter	Nominal Copper Weight	Nominal Weight
	No. x mm²	mm	mm	mm (min-max)	kg/km	kg/km
17(32/32)	2x1	0.8	1.3	7.7-10	19	89
17(32/32)	3x1	0.8	1.4	8.3-10.7	29	111
17(32/32)	4x1	0.8	1.5	9.2-11.9	38	146
16(30/30)	1 x 1.5	0.8	1.4	5.7-7.1	14.4	59
16(30/30)	2 x 1.5	0.8	1.5	8.5-11.0	29	135
16(30/30)	3 x 1.5	0.8	1.6	9.2-11.9	43	165
16(30/30)	4 x 1.5	0.8	1.7	10.2-13.1	58	200
16(30/30)	5 x 1.5	0.8	1.8	11.2-14.4	72	240
16(30/30)	7 x 1.5	0.8	2.6	14.5-17.5	101	385
16(30/30)	12 x 1.5	0.8	2.9	17.6-22.4	173	516
16(30/30)	19 x 1.5	0.8	3.2	20.7-26.3	274	800
16(30/30)	24 x 1.5	0.8	3.5	24.3-30.7	346	882
14(50/30)	1 x 2.5	0.9	1.4	6.3-7.9	24	72
14(50/30)	2 x 2.5	0.9	1.7	10.2-13.1	48	195
14(50/30)	3 x 2.5	0.9	1.8	10.9-14.0	72	235
14(50/30)	4 x 2.5	0.9	1.9	12.1-15.5	96	290
14(50/30)	5 x 2.5	0.9	2	13.3-17.0	120	345
14(50/30)	7 x 2.5	0.9	2.8	16.5-20.0	168	520
14(50/30)	12 x 2.5	0.9	3.1	20.6-26.2	288	810
14(50/30)	19 x 2.5	0.9	3.5	25.5-31.0	456	1200

14(50/30)	24 x 2.5	0.9	3.9	28.8-36.4	576	1650
12(56/28)	1x4	1	1.5	7.2-9.0	38	99
12(56/28)	2x4	1	1.8	11.8-15.1	77	270
12(56/28)	3x4	1	1.9	12.7-16.2	115	320
12(56/28)	4x4	1	2	14.0-17.9	154	395
12(56/28)	5x4	1	2.2	15.6-19.9	192	485
12(56/28)	7x4	1	3.1	18.2-21.8	269	681
10(84/28)	1x6	1	1.6	7.9-9.8	58	130
10(84/28)	3x6	1	2.1	14.1-18.0	173	495
10(84/28)	4x6	1	2.3	15.7-20.0	230	610
10(84/28)	5x6	1.2	3.6	17.5-22.2	288	760
8(80/26)	1 x 10	1.2	1.8	9.5-11.9	96	230
8(80/26)	3 x 10	1.2	3.3	19.1-24.2	288	880
8(80/26)	4 x 10	1.2	3.4	20.9-26.5	384	1060
8(80/26)	5 x 10	1.2	3.6	22.9-29.1	480	1300
6(128/26)	1 x 16	1.2	1.9	10.8-13.4	154	320
6(128/26)	3 x 16	1.2	3.5	21.8-27.6	461	1090
6(128/26)	4 x 16	1.2	3.6	23.8-30.1	614	1345
6(128/26)	5 x 16	1.2	3.9	26.4-33.3	768	1680
4(200/26)	1 x 25	1.4	2	12.7-15.8	240	450
4(200/26)	4 x 25	1.4	4.1	28.9-36.6	960	1995
4(200/26)	5 x 25	1.4	4.4	32.0-40.4	1200	2470
2(280/26)	1 x 35	1.4	2.2	14.3-17.9	336	605
2(280/26)	3 x 35	1.4	4.1	29.3-37.1	1008	1900
2(280/26)	4 x 35	1.4	4.4	32.5-41.1	1344	2645
2(280/26)	5 x 35	1.4	4.7	37.0-45.0	1680	2810
1(400/26)	1 x 50	1.6	2.4	16.5-20.6	480	825
1(400/26)	4 x 50	1.6	4.8	37.7-47.5	1920	3635
1(400/26)	5 x 50	1.6	5.1	40.0-50.8	2400	4050
2/0(356/24)	1 x 70	1.6	2.6	18.6-23.3	672	1090
2/0(356/24)	4 x 70	1.6	5.2	42.7-54.0	2688	4830
3/0(485/24)	1 x 95	1.8	2.8	20.8-26.0	912	1405
3/0(485/24)	4 x 95	1.8	5.9	48.4-61.0	3648	6320
4/0(614/24)	1 x 120	1.8	3	22.8-28.6	1152	1746
4/0(614/24)	4 x 120	1.8	6	53.0-66.0	4608	6830
300MCM(765/24)	1 x 150	2	3.2	25.2-31.4	1440	1887
300MCM(765/24)	4 x 150	2	6.4	58.0-73.0	5760	8320
350MCM(944/24)	1 x 185	2.2	3.4	27.6-34.4	1776	2274
350MCM(944/24)	4 x185	2.2	6.8	64.0-80.0	7104	9800
500MCM(1221/24)	1 x 240	2.4	3.5	30.6-38.3	23.4	2956
500MCM(1221/24)	4 x 240	2.4	7	72.0-90.0	9216	12100
-	1 x 300	2.6	3.6	33.5-41.9	2880	3479

Rubber Cable H07RN8-F to Harmonized Standard

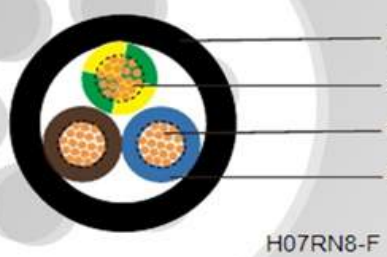
APPLICATION

These cables particularly for use in fresh water up to 10 m depth with a maximum water temperature up to 40°C , such as the connection of submersible pumps or similar applications. Not suitable for underwater power transmission or installation in a watercourse, or where it is possible that mechanical damage might occur and cause a hazard. Indirect underground installation is allowed provided that there is mechanically protection of the cables. These cables are manufactured according to the Standard and Approval CEI 20-19/16 (CENELEC HD 22.16). It is the only cable that the installation Standard and Approval CEI 64-8 at section 702 allows for installation in swimming pools and fountains. For connections liable to moderate mechanical stresses, i.e. industrial or agricultural workshop apparatus, large boilers, heater plates, electric tools such as drills and disk saws, electric appliances, portable motors and generators on building sites; also for fixed installations along floors or shelving on temporary job sites, for connecting structural elements in lifting apparatus, machinery, etc. Suitable for applications up to 1000 V for adequately protected fixed installations (i.e. inside pipes or equipment) as well as for rotor connections to lifting apparatus motors. They are Ozone, UV & weather resistant.

STANDARD

HD22.16 S1, VDE-0282 Part-16, CE low voltage directive 73/23/EEC & 93/68/EEC., ROHS compliant.

CONSTRUCTION



H07RN8-F

- Fine bare copper strands

- Strands to VDE-0295 Class-5, IEC 60228 Class-5

- Rubber core insulation EI4 to VDE-0282 Part-1

- Color code VDE-0293-308 and HD 186

- Polychloroprene rubber (neoprene) jacket EM2

TECHNICAL CHARACTERISTICS

Working voltage: 450/750 volts

Test voltage: 2500 volts

Flexing bending radius: 6.0 x Ø

Fixed bending radius: 4.0 x Ø

Flexing Temperature: -25° C to +60° C

Fixed Temperature: -40° C to +60° C

Max Water Temperature: +40° C

Short circuit temperature: +250 ° C

Flame retardant: IEC 60332.1

Insulation resistance: 20 MΩ x km

TECHNICAL PARAMETER

AWG	No. of Cores x Nominal Cross Sectional Area	Nominal Thickness of Insulation	Nominal Thickness of Sheath	Nominal Overall Diameter	Nominal Copper Weight	Nominal Weight
	No. x mm²	mm	mm	mm (min-max)	kg/km	kg/km
17(32/32)	2x1	0.8	1.3	7.7-10	19	89
17(32/32)	3x1	0.8	1.4	8.3-10.7	29	111
17(32/32)	4x1	0.8	1.5	9.2-11.9	38	146
16(30/30)	1 x 1.5	0.8	1.4	5.7-7.1	14.4	59
16(30/30)	2 x 1.5	0.8	1.5	8.5-11.0	29	135
16(30/30)	3 x 1.5	0.8	1.6	9.2-11.9	43	165
16(30/30)	4 x 1.5	0.8	1.7	10.2-13.1	58	200
16(30/30)	5 x 1.5	0.8	1.8	11.2-14.4	72	240

16(30/30)	7 x 1.5	0.8	2.6	14.5-17.5	101	385
16(30/30)	12 x 1.5	0.8	2.9	17.6-22.4	173	516
16(30/30)	19 x 1.5	0.8	3.2	20.7-26.3	274	800
16(30/30)	24 x 1.5	0.8	3.5	24.3-30.7	346	882
14(50/30)	1 x 2.5	0.9	1.4	6.3-7.9	24	72
14(50/30)	2 x 2.5	0.9	1.7	10.2-13.1	48	195
14(50/30)	3 x 2.5	0.9	1.8	10.9-14.0	72	235
14(50/30)	4 x 2.5	0.9	1.9	12.1-15.5	96	290
14(50/30)	5 x 2.5	0.9	2	13.3-17.0	120	345
14(50/30)	7 x 2.5	0.9	2.8	16.5-20.0	168	520
14(50/30)	12 x 2.5	0.9	3.1	20.6-26.2	288	810
14(50/30)	19 x 2.5	0.9	3.5	25.5-31.0	456	1200
14(50/30)	24 x 2.5	0.9	3.9	28.8-36.4	576	1650
12(56/28)	1x4	1	1.5	7.2-9.0	38	99
12(56/28)	2x4	1	1.8	11.8-15.1	77	270
12(56/28)	3x4	1	1.9	12.7-16.2	115	320
12(56/28)	4x4	1	2	14.0-17.9	154	395
12(56/28)	5x4	1	2.2	15.6-19.9	192	485
12(56/28)	7x4	1	3.1	18.2-21.8	269	681
10(84/28)	1x6	1	1.6	7.9-9.8	58	130
10(84/28)	3x6	1	2.1	14.1-18.0	173	495
10(84/28)	4x6	1	2.3	15.7-20.0	230	610
10(84/28)	5x6	1.2	3.6	17.6-22.2	288	760
8(80/26)	1 x 10	1.2	1.8	9.5-11.9	96	230
8(80/26)	3 x 10	1.2	3.3	19.1-24.2	288	880
8(80/26)	4 x 10	1.2	3.4	20.9-26.5	384	1060
8(80/26)	5 x 10	1.2	3.6	22.9-29.1	480	1300
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6(128/26)	3 x 16	1.2	3.5	21.8-27.6	461	1090
6(128/26)	4 x 16	1.2	3.6	23.8-30.1	614	1345
6(128/26)	5 x 16	1.2	3.9	26.4-33.3	768	1680
4(200/26)	1 x25	1.4	2	12.7-15.8	240	450
4(200/26)	4 x 25	1.4	4.1	28.9-36.6	960	1995
4(200/26)	5 x 25	1.4	4.4	32.0-40.4	1200	2470
2 (280/26)	1 x 35	1.4	2.2	14.3-17.9	336	605
2 (280/26)	3 x 35	1.4	4.1	29.3-37.1	1008	1900
2 (280/26)	4 x 35	1.4	4.4	32.5-41.1	1344	2645
2 (280/26)	5 x 35	1.4	4.7	37.0-45.0	1680	2810
1(400/26)	1 x 50	1.6	2.4	16.5-20.6	480	825
1(400/26)	4 x 50	1.6	4.8	37.7-47.5	1920	3635
1(400/26)	5 x 50	1.6	5.1	40.0-50.8	2400	4050
2/0(356/24)	1 x 70	1.6	2.6	18.6-23.3	672	1090
2/0(356/24)	4 x 70	1.6	5.2	42.7-54.0	2688	4830
3/0(485/24)	1 x 95	1.8	2.8	20.8-26.0	912	1405

3/0(485/24)	4 x 95	1.8	5.9	48.4-61.0	3648	6320
4/0(614/24)	1x 120	1.8	3	22.8-28.6	1152	1746
4/0(614/24)	4 x 120	1.8	6	53.0-66.0	4608	6830
300 MCM (765/24)	1 x 150	2	3.2	25.2-31.4	1440	1887
300 MCM (765/24)	4 x 150	2	6.4	58.0-73.0	5760	8320
350 MCM (944/24)	1 x 185	2.2	3.4	27.6-34.4	1776	2274
350 MCM (944/24)	4 x 185	2.2	6.8	64.0-80.0	7104	9800
500 MCM (1221/24)	1x 240	2.4	3.5	30.6-38.3	23.4	2956
500 MCM (1221/24)	4x 240	2.4	7.2	72.0-90.0	9216	12100
-	1 x 300	2.6	3.6	33.5-41.9	2880	3479

Rubber Cable H05BN4-F to Harmonized Standard

APPLICATION

These EPR (ethylen-propylen rubber) insulated and CSP (chlorosulphonated polyethylene rubber or similar) sheathed electric cables can be used either in dry, humid or wet places or in contact with oil or grease, in weather conditions and under weak mechanical stress, for example for power supply to small appliances in industrial plants, machine shops, heating plates, portable lamps, farming equipment etc. They are also suitable for caravans and camping equipment... The maximum conductor temperature in normal use: 90°C. While high temperature use, skin contact must be avoided.

STANDARD

CENELEC HD 22.12 S1, VDE 0282 Part-12, IEC 60245-4, CE Low-Voltage, ROHS compliant.

CONSTRUCTION

H05BN4-F

- Fine bare copper strands

- Strands to VDE-0295 Class-5, IEC 60228 Class-5

- EPR(Ethylene Propylene Rubber) rubber EI7 insulation

- Color code VDE-0293-308

- CSP(Chlorosulphonated Polyethylene) outer jacket EM7

TECHNICAL CHARACTERISTICS

Working voltage: 300/500 volts

Test voltage: 2000 volts

Flexing bending radius: 6.0 x Ø

Fixed bending radius: 4.0 x Ø

Temperature Range: -20° C to +90° C

Maximum Short Circuit Temperature: +250° C

Flame retardant: IEC 60332.1

Insulation resistance: 20 MΩ x km

TECHNICAL PARAMETER

AWG	No. of Cores x Nominal Cross Sectional Area	Nominal Thickness of Insulation	Nominal Thickness of Sheath	Nominal Overall Diameter	Nominal Copper Weight	Nominal Weight
	No. x mm²	mm	mm	mm	kg/km	kg/km
18(24/32)	2 x 0.75	0.6	0.8	6.1	29	54
18(24/32)	3 x 0.75	0.6	0.9	6.7	43	68
18(24/32)	4 x 0.75	0.6	0.9	7.3	58	82
18(24/32)	5 x 0.75	0.6	1	8.1	72	108
17(32/32)	2x1	0.6	0.9	6.6	19	65
17(32/32)	3x1	0.6	0.9	7	29	78
17(32/32)	4x1	0.6	0.9	7.6	38	95
17(32/32)	5x1	0.6	1	8.5	51	125

Rubber Cable H07BN4-F to Harmonized Standard

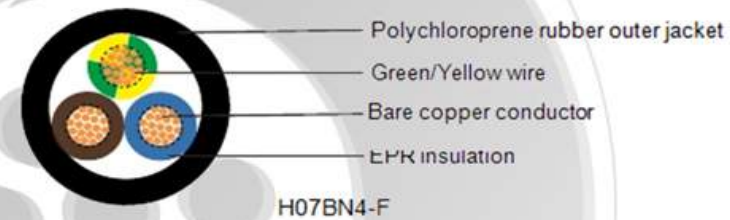
APPLICATION

These cables are made with synthetic rubbers having an excellent temperature resistance and can be used either in dry, humid or wet places or in contact with oil or grease, in weather conditions and under medium mechanical stress, for example power supply to equipment in industrial plants, large size boilers, heating plates, portable lamps, electrical tools such as drilling machines, disk saws, portable engines and machines, building and farming equipments etc. These cables are also suitable for stationary equipments, for example designed for wind-tower application, the particular conductor Cable Construction and the used materials have improved the cable torsion resistance (max 150°/m), key requirement for drop cables in wind-generators, on plaster in temporary buildings and builders huts, and wiring in machinery elevators or similar. Suitable for caravans and camping equipment. Especially recommended for service temperature up to 90°C together with good resistance to hot grease and oil. Therefore these cables are ideal for use in plants and industries dealing with grease, oil or oil emulsion treatments, transformation or handling.

STANDARD

CENELEC HD 22.12 S1, VDE-0282 Part-12, IEC 60245-4, IEC 60754-1/2, ROHS compliant.

CONSTRUCTION



H07BN4-F

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Class-5

- EPR(Ethylene Propylene Rubber) rubber EI7 insulation

- Color code VDE-0293-308

- Special polychloroprene rubber outer jacket EM7

TECHNICAL CHARACTERISTICS

Working voltage: 450/750 volts

Test voltage: 2500 volts

Flexing bending radius: 6.0 x Ø

Fixed bending radius: 4.0 x Ø

Temperature Range: -40° C to +90° C

Wind energy: -15° C to +90° C

Maximum Short Circuit Temperature: +250° C

Flame retardant: IEC 60332.1C2/NF C 32-070

Insulation resistance: 20 MΩ x km

TECHNICAL PARAMETER

AWG	No. of Cores x Nominal Cross Sectional Area	Nominal Thickness of Insulation	Nominal Thickness of Sheath	Nominal Overall Diameter	Nominal Weight
	No. x mm²	mm	mm	mm	kg/km
17(32/32)	2x1	0.8	1.3	8.2	93
17(32/32)	3x1	0.8	1.4	8.9	114
17(32/32)	4x1	0.8	1.5	9.8	139
16(30/30)	1 x 1.5	0.8	1.4	5.9	50
16(30/30)	2 x 1.5	0.8	1.5	9.3	118
16(30/30)	3 x 1.5	0.8	1.6	10	144
16(30/30)	4 x 1.5	0.8	1.7	11	177
16(30/30)	5 x 1.5	0.8	1.8	12.1	226
16(30/30)	7 x 1.5	0.8	2.6	14.7	385
16(30/30)	12 x 1.5	0.8	2.9	18.8	516
16(30/30)	19 x 1.5	0.8	3.2	22	800
16(30/30)	24 x 1.5	0.8	3.5	25.7	882
14(50/30)	1 x 2.5	0.9	1.4	6.5	65

14(50/30)	2 x 2.5	0.9	1.7	10.9	172
14(50/30)	3 x 2.5	0.9	1.8	11.7	210
14(50/30)	4 x 2.5	0.9	1.9	12.8	257
14(50/30)	5 x 2.5	0.9	2	14.1	329
14(50/30)	7 x 2.5	0.9	2.8	17.1	445
14(50/30)	12 x 2.5	0.9	3.1	22.1	702
14(50/30)	19 x 2.5	0.9	3.5	26	1030
14(50/30)	24 x 2.5	0.9	3.9	30.4	1312
12(56/28)	1x4	1	1.5	7.4	89
12(56/28)	2x4	1	1.8	12.6	238
12(56/28)	3x4	1	1.9	13.5	292
12(56/28)	4x4	1	2	14.8	359
12(56/28)	5x4	1	2.2	16.3	422
12(56/28)	7x4	1	3.1	19.6	618
10(84/28)	1x6	1	1.6	8.1	115
10(84/28)	2x6	1	1.8	13.8	282
10(84/28)	3x6	1	2.1	14.8	355
10(84/28)	4x6	1	2.3	16.4	449
10(84/28)	5x6	1.2	3.6	18.1	567
8(80/26)	1 x 10	1.2	1.8	10.4	190
8(80/26)	2 x 10	1.2	2.3	19.4	539
8(80/26)	3 x 10	1.2	3.3	20.7	674
8(80/26)	4 x 10	1.2	3.4	22.6	833
8(80/26)	5 x 10	1.2	3.6	24.8	1010
6(128/26)	1 x 16	1.2	1.9	11.6	259
6(128/26)	2 x 16	1.2	2.8	21.8	722
6(128/26)	3 x 16	1.2	3.5	23.3	913
6(128/26)	4 x 16	1.2	3.6	25.4	1138
6(128/26)	5 x 16	1.2	3.9	28.1	1400
4(200/26)	1 x25	1.4	2	13.7	375
4(200/26)	2 x 25	1.4	3.3	25.9	1043
4(200/26)	4 x 25	1.4	4.1	30.8	1714
4(200/26)	5 x 25	1.4	4.4	33.9	2096
2(280/26)	1 x 35	1.4	2.2	15.4	492
2(280/26)	3 x 35	1.4	4.1	31	1745
2(280/26)	4 x 35	1.4	4.4	34.3	2204
2(280/26)	5 x 35	1.4	4.7	39.6	2810
1(400/26)	1 x 50	1.6	2.4	17.7	675
1(400/26)	3 x 50	1.6	3.6	35.8	2409
1(400/26)	4 x 50	1.6	4.8	39.6	3029
1(400/26)	5 x 50	1.6	5.1	44.1	4050
2/0(356/24)	1 x 70	1.6	2.6	20	908
2/0(356/24)	3 x 70	1.6	4.2	40.5	3211
2/0(356/24)	4 x 70	1.6	5.2	44.9	4121
3/0(485/24)	1 x 95	1.8	2.8	22.1	1171

3/0(485/24)	3 x 95	1.8	4.8	45.1	4210
3/0(485/24)	4 x 95	1.8	5.9	50.4	5361
4/0(614/24)	1x 120	1.8	3	24.5	1445
4/0(614/24)	3 x 120	1.8	4.8	49.9	5205
4/0(614/24)	4 x 120	1.8	6	55.3	6546
300MCM(765/24)	1x150	2	3.2	26.9	1783
300MCM(765/24)	3x150	2	5.2	54.8	6389
300MCM(765/24)	4x150	2	6.4	60.9	8095
350MCM(944/24)	1x185	2.2	3.4	28.9	2125
350MCM(944/24)	4x185	2.2	6.8	65.7	9652
500MCM(1221/24)	1x240	2.4	3.5	32.6	2733
500MCM(1221/24)	4x240	2.4	7.2	75.5	12614
–	1x300	2.6	3.6	36.5	3348

Rubber Cable H05BB-F /H07BB-F to Harmonized Standard

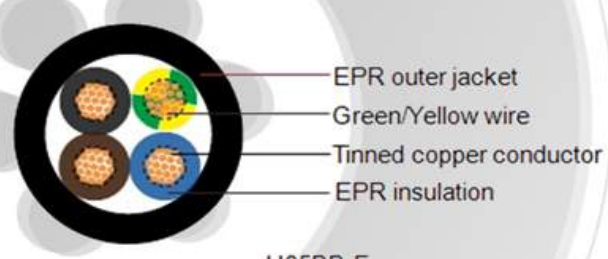
APPLICATION

These rubbers insulated and sheathed electric cables, with a parallel EPDM tube, joined with a textile braid, are used especially for electric steam generator irons (named usually "vaporellas"). The cables are suitable for the stripping force on automatic machines and for low temperature environments.

STANDARD

HD 22.12, DIN VDE 0282-12

CONSTRUCTION



H05BB-F

- Bare/Tinned copper strand conductor

- acc. to DIN VDE 0295 class 5. IEC 60228 class 5

- Insulation: EPR rubber type E17

- Color coded to VDE 0293-308(3 conductors and above with yellow/green wire)

- Sheath: EPR rubber type EM6

- Sheath color: normally black

TECHNICAL CHARACTERISTICS

Working voltage: H05BB-F: 300/500V

H07BB-F: 450/750V

Test voltage: H05BB-F: 2000V

H07BB-F: 2500V

Flexing bending radius: 4 × Ø

Static bending radius: 3 × Ø

Operating temperature: H05BB-F: - 40℃- + 60℃

H07BB-F: - 25℃- + 90℃

Short circuit temperature: 250℃

Flame retardant: VDE 0482-332-1-2/IEC 60332-1

TECHNICAL PARAMETER

AWG	No. of Cores x Nominal Cross Sectional Area	Nominal Thickness of Insulation	Nominal Thickness of Sheath	Nominal Overall Diameter	Nominal Weight
	No. x mm²	mm	mm	mm	kg/km
H05BB-F					
18(24/32)	2x0.75	0.6	0.8	6.3	53
17(32/32)	2x1	0.6	0.9	6.8	64
16(30/30)	2x1.5	0.8	1	8.3	95
14(30/50)	2x2.5	0.9	1.1	9.8	140
18(24/32)	3x0.75	0.6	0.9	6.8	65
17(32/32)	3x1	0.6	0.9	7.2	77

16(30/30)	3x1.5	0.8	1	8.8	115
14(30/50)	3x2.5	0.9	1.1	10.4	170
12(56/28)	3x4	1	1.2	12.2	240
10(84/28)	3x6	1	1.4	13.6	320
18(24/32)	4x0.75	0.6	0.9	7.4	80
17(32/32)	4x1	0.6	0.9	7.8	95
16(30/30)	4x1.5	0.8	1.1	9.8	145
14(30/50)	4x2.5	0.9	1.2	11.5	210
12(56/28)	4x4	1	1.3	13.5	300
10(84/28)	4x6	1	1.5	15.4	405
18(24/32)	5x0.75	0.6	1	8.3	100
17(32/32)	5x1	0.6	1	8.7	115
16(30/30)	5x1.5	0.8	1.1	10.7	170
14(30/50)	5x2.5	0.9	1.3	12.8	255
H07BB-F					
17(32/32)	2×1	0.8	1.3	8.2	89
16(30/30)	2×1.5	0.8	1.5	9.1	113
14(30/50)	2×2.5	0.9	1.7	10.85	165
17(32/32)	3×1	0.8	1.4	8.9	108
16(30/30)	3×1.5	0.8	1.6	9.8	138
14(30/50)	3×2.5	0.9	1.8	11.65	202
17(32/32)	4×1	0.8	1.5	9.8	134
16(30/30)	4×1.5	0.8	1.7	10.85	171
14(30/50)	4×2.5	0.9	1.9	12.8	248
17(32/32)	5×1	0.8	1.6	10.8	172
16(30/30)	5×1.5	0.8	1.8	11.9	218

Rubber Cable H05GG-F to Harmonized Standard

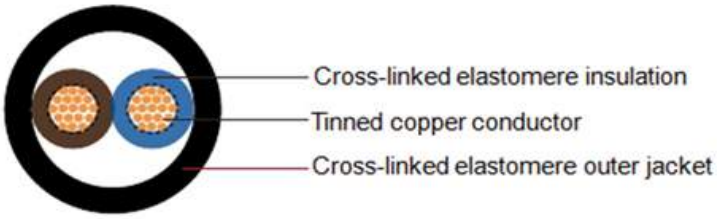
APPLICATION

For general use in domestic premises, kitchens and offices and for supplying appliances where the cables are subjected to low mechanical stresses. Also for low temperature uses.(eg., cooking appliances, soldering irons, toasters).

STANDARD

HD 22.11 S1, VDE 0282 part 11

CONSTRUCTION



H05GG-F

- Fine tinned copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Cross-linked elastomere E13 insulation
- Color code VDE-0293-308
- Cross-linked elastomere EM 9 outer jacket – black

TECHNICAL CHARACTERISTICS

Working voltage: 300/500V

Test voltage: 2000V

Flexing bending radius: 4×Ø

Static bending radius: 3×Ø

Temperature range: -15°C to +110°C

Short circuit temperature: 200°C

Flame retardant: IEC 60332 -1

Halogen-free: IEC 60754-1

Low smoke: IEC 60754-2

Smoke density: IEC 61034

TECHNICAL PARAMETER

AWG	No. of Cores x Nominal Cross Sectional Area	Nominal Thickness of Insulation	Nominal Thickness of Sheath	Nominal Overall Diameter	Nominal Weight
	No. x mm²	mm	mm	mm	kg/km

18(24/32)	2x0.75	0.6	0.8	6.3	53
17(32/32)	2x1	0.6	0.9	6.8	64
16(30/30)	2x1.5	0.8	1	8.3	95
14(30/50)	2x2.5	0.9	1.1	9.8	140
18(24/32)	3x0.75	0.6	0.9	6.8	65
17(32/32)	3x1	0.6	0.9	7.2	77
16(30/30)	3x1.5	0.8	1	8.8	115
14(30/50)	3x2.5	0.9	1.1	10.4	170
12(56/28)	3x4	1	1.2	12.2	240
10(84/28)	3x6	1	1.4	13.6	320
18(24/32)	4x0.75	0.6	0.9	7.4	80
17(32/32)	4x1	0.6	0.9	7.8	95
16(30/30)	4x1.5	0.8	1.1	9.8	145
14(30/50)	4x2.5	0.9	1.2	11.5	210
12(56/28)	4x4	1	1.3	13.5	300
10(84/28)	4x6	1	1.5	15.4	405
18(24/32)	5x0.75	0.6	1	8.3	100
17(32/32)	5x1	0.6	1	8.7	115
16(30/30)	5x1.5	0.8	1.1	10.7	170
14(30/50)	5x2.5	0.9	1.3	12.8	255

Rubber Cable H03RT-H to Harmonized Standard

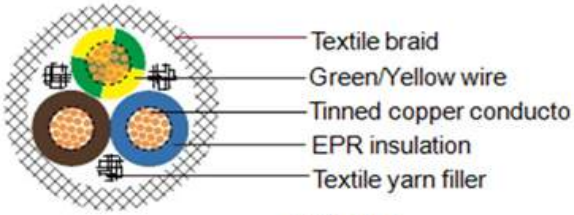
APPLICATION

These cables are suitable for power connecting wire and complete lines between indoor household appliances, generally used for electric iron or electric saucepan. Not suitable for outdoor use nor power supply to electrical tools. Ozone, oxygen, UV rays and heat resistant.

STANDARD

HD 22.14, DIN VDE 0282-14, ROHS compliant.

CONSTRUCTION



H03RT-H

- Flexible bare or tinned copper strand conductor acc. to DIN VDE 0295 class 5. IEC 60228 class 5
- EPR insulation type E14 of HD22.1
- Color coded to VDE 0293-308/HD 308(3 conductors and above with yellow/green wire)
- Textile yarn filler
- Textile braid of HD22.1

TECHNICAL CHARACTERISTICS

Working voltage: 300/300 V

Test voltage: 2000V

Minimum bending radius: 10× cable diameter

Temperature range: - 25℃ to + 60℃

Short circuit temperature: 200℃

TECHNICAL PARAMETER

AWG	No. of Cores x Nominal Cross Sectional Area	Nominal Thickness of Insulation	Nominal Overall Diameter	Nominal Weight
	No. x mm²	mm	mm	kg/km
18(24/32)	2×0.75	0.8	6.30±0.20	36
17(32/32)	2×1.0	0.8	6.80±0.20	52
16(30/30)	2×1.5	0.8	7.20±0.20	42
18(24/32)	3×0.75	0.8	6.80±0.20	60
17(32/32)	3×1.0	0.8	7.20±0.20	54
16(30/30)	3×1.5	0.8	7.80±0.20	74

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