



H05SS-F/H05SST-F

Application and Description

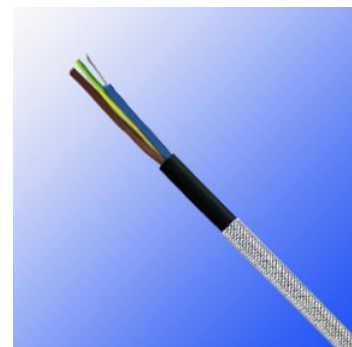
These cables are special 180 Degree C., harmonized, heavy-duty, tear-resistant black silicone multi-core cable for use in high and low temperature areas or where UV light can be damaging. The harmonization approval on these cables makes them ideal for export to or use in European countries and markets. These cables are mainly found in steel mills, foundries, glass factories, baking equipment, burners, heating and lighting systems. The cables have improved characteristics against mechanical stress and are ideal for permanent mechanically protected cable for lighting in industrial applications. The silicone jacket provides added heat-resistance, chemical, oil and acidic resistance. Not permitted for outdoor use.

Standard and Approval

HD 22.15 S1, VDE-0282 Part 15, VDE-0250 Part-816 (N2MH2G), CE low voltage directive 72/23/EEC & 93/68/EEC, ROHS compliant

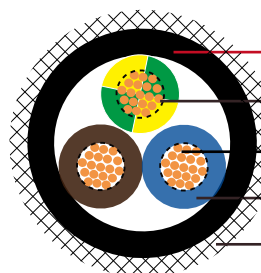
Cable Construction

- Fine tinned copper strands
- Strands to VDE-0295 Class-5, IEC 60228 CI-5
- Cross-linked silicone (EI 2) core insulation
- Color code VDE-0293-308
- Cross-linked silicone (EM 9) outer jacket - black
- Overall polyester fiber braid(only for H05SST-F)



Technical Characteristics

- Working voltage: 300/500V
- Test voltage: 2000V
- Flexing bending radius: $7.5 \times \varnothing$
- Static bending radius: $4 \times \varnothing$
- Temperature range: -60°C to $+180^{\circ}\text{C}$
- Short circuit temperature: 220°C
- Flame retardant: IEC 60332 -1
- Insulation resistance: $200 \text{ M}\Omega \times \text{km}$
- Halogen-free: IEC 60754-1
- Low smoke: IEC 60754-2



- Cross-linked silicone jacket
- Green/Yellow wire
- Tinned copper conductor
- Cross-linked silicone insulation
- Polyester fiber braid

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Cable Parameter

AWG	No. of Cores x Nominal Cross Sectional Area # x mm ²	Nominal Thickness of Insulation mm	Nominal Thickness of Sheath mm	Nominal Overall Diameter mm	Nominal Copper Weight kg/km	Nominal Weight kg/km
H05SS-F						
18(24/32)	2×0.75	0.6	0.8	6.2	14.4	59.0
18(24/32)	3×0.75	0.6	0.9	6.8	21.6	71.0
18(24/32)	4×0.75	0.6	0.9	7.4	28.8	93.0
18(24/32)	5×0.75	0.6	1.0	8.9	36.0	113.0
17(32/32)	2×1.0	0.6	0.9	6.7	19.2	67.0
17(32/32)	3×1.0	0.6	0.9	7.1	29.0	86.0
17(32/32)	4×1.0	0.6	0.9	7.8	38.4	105.0
17(32/32)	5×1.0	0.6	1.0	8.9	48.0	129.0
16(30/30)	2×1.5	0.8	1.0	7.9	29.0	91.0
16(30/30)	3×1.5	0.8	1.0	8.4	43.0	110.0
16(30/30)	4×1.5	0.8	1.1	9.4	58.0	137.0
16(30/30)	5×1.5	0.8	1.1	11.0	72.0	165.0
14(30/50)	2×2.5	0.9	1.1	9.3	48.0	150.0
14(30/50)	3×2.5	0.9	1.1	9.9	72.0	170.0
14(30/50)	4×2.5	0.9	1.1	11.0	96.0	211.0
14(30/50)	5×2.5	0.9	1.1	13.3	120.0	255.0
12(56/28)	3×4.0	1.0	1.2	12.4	115.0	251.0
12(56/28)	4×4.0	1.0	1.3	13.8	154.0	330.0
10(84/28)	3×6.0	1.0	1.4	15.0	173.0	379.0
10(84/28)	4×6.0	1.0	1.5	16.6	230.0	494.0
H05SST-F						
18(24/32)	2×0.75	0.6	0.8	7.2	14.4	63.0
18(24/32)	3×0.75	0.6	0.9	7.8	21.6	75.0
18(24/32)	4×0.75	0.6	0.9	8.4	28.8	99.0
18(24/32)	5×0.75	0.6	1.0	9.9	36.0	120.0
17(32/32)	2×1.0	0.6	0.9	7.7	19.2	71.0
17(32/32)	3×1.0	0.6	0.9	8.1	29.0	91.0
17(32/32)	4×1.0	0.6	0.9	8.8	38.4	111.0
17(32/32)	5×1.0	0.6	1.0	10.4	48.0	137.0
16(30/30)	2×1.5	0.8	1.0	8.9	29.0	97.0
16(30/30)	3×1.5	0.8	1.0	9.4	43.0	117.0
16(30/30)	4×1.5	0.8	1.1	10.4	58.0	145.0
16(30/30)	5×1.5	0.8	1.1	12.0	72.0	175.0
14(30/50)	2×2.5	0.9	1.1	10.3	48.0	159.0
14(30/50)	3×2.5	0.9	1.1	10.9	72.0	180.0
14(30/50)	4×2.5	0.9	1.1	12.0	96.0	224.0
14(30/50)	5×2.5	0.9	1.1	14.3	120.0	270.0
12(56/28)	3×4.0	1.0	1.2	13.4	115.0	266.0
12(56/28)	4×4.0	1.0	1.3	14.8	154.0	350.0
10(84/28)	3×6.0	1.0	1.4	16.0	173.0	402.0
10(84/28)	4×6.0	1.0	1.5	17.6	230.0	524.0