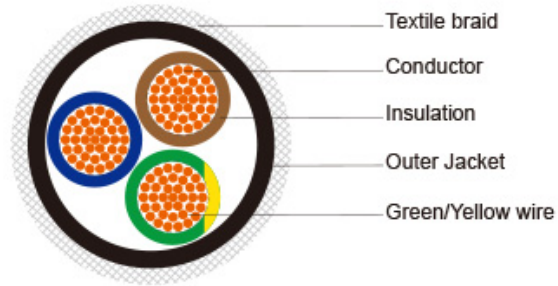


German Standard Industrial Cables H05SS-F/H05SST-F



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 coded to 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×Ø
 STATIC BENDING RADIUS: 4 x Ø
 TEMPERATURE RANGE: -60 °C to +180 °C
 SHORT CIRCUIT TEMPERATURE: +220 °C
 FLAME RETARDANT: IEC 60332 -1
 INSULATION RESISTANCE: 200 MΩ x km
 HALOGEN-FREE: IEC 60754-1
 LOW SMOKE: IEC 60754-2

Cable 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 |
|-----------|---|---------------------------------------|-----------------------------------|--------------------------------|-----------------------------|-------------------|
| | # X MM ² | MM | MM | MM | KG/KM | 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(50/30) | 2×2.5 | 0.9 | 1.1 | 9.3 | 48.0 | 150.0 |
| 14(50/30) | 3×2.5 | 0.9 | 1.1 | 9.9 | 72.0 | 170.0 |
| 14(50/30) | 4×2.5 | 0.9 | 1.1 | 11.0 | 96.0 | 211.0 |
| 14(50/30) | 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(50/30) | 2×2.5 | 0.9 | 1.1 | 10.3 | 48.0 | 159.0 |
| 14(50/30) | 3×2.5 | 0.9 | 1.1 | 10.9 | 72.0 | 180.0 |
| 14(50/30) | 4×2.5 | 0.9 | 1.1 | 12.0 | 96.0 | 224.0 |
| 14(50/30) | 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 |