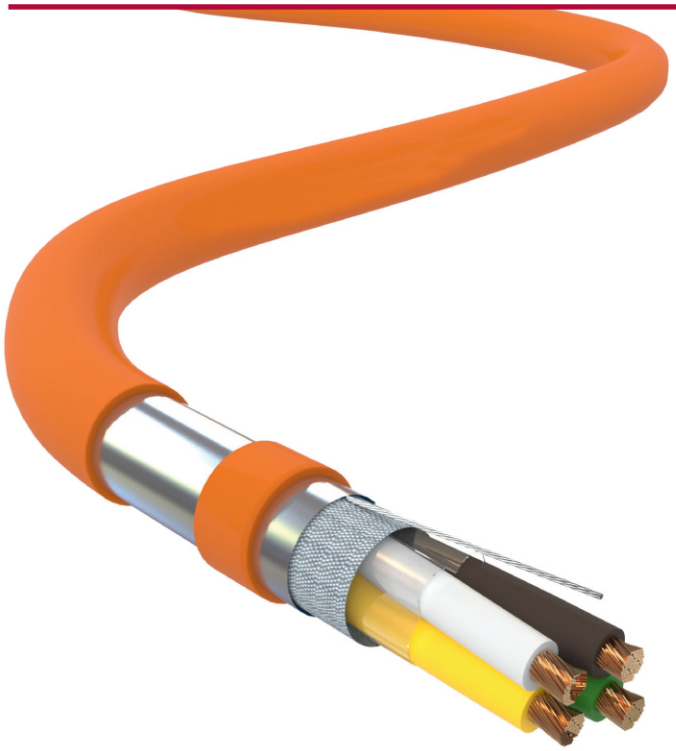


# LIH(st)H FE180 PH120

## Yapı / Construction

| | |
|---|---|
| İç İletken | : Elektrolitik Bükülü Bakır Sınıf 5<br>EN 60228, IEC 60228, VDE 0295 |
| Yalıtkan | : Özel Silikon Kompaund, DIN 47100 Damar Rengi |
| Büküm | : Katlar Halinde Büküm |
| Ayırıcı Bant | : PES Bant ve Cam Elyaf Bant |
| Ekran | : AL-PES Bant ve Bükülü Kalaylı Bakır Toprak Teli |
| Dış Kılıf | : HFFR Kompaund EN 50290-2-27, RAL 2003 Turuncu |
| Inner Conductor | : Electrolytic Stranded Copper Wire Class 5<br>EN 60228, IEC 60228, VDE 0295 |
| Insulation | : Special Silicone Compound, DIN 47100 Colour Code |
| Stranding | : Cores Twisted in Layers |
| Seperator | : PES Tape and Glass Fiber Tape |
| Secreen | : AL-PES Tape and Twisted Tinned Copper Drain Wire. |
| Outer Sheath | : HFFR Compound EN 50290-2-27, RAL 2003 Orange |

## Kullanıldığı Yerler / Applications

- Yangın anında işlevini devam ettiren bu kablolar, acil durum devrelerinde sinyal ve haberleşme kablosu olarak kullanılmaktadır. (Çok sayıda insanın bulunduğu metrolar, tüneller, alışveriş merkezleri, hastaneler, hava alanları, oteller, konutlar, endüstriyel tesisler vb. alanlarda kullanılırlar.)
Bu tip kablolar, halojensiz, alev geciktirici ve düşük duman yoğunluğuna sahiptirler.

- These cables are used in the emergency circuits as signal and communication cables, which continue functioning during an instance of fire. (They are used at places where a lot of people can be found such as subways, tunnels, shopping centers, hospitals, airports, hotels, residential buildings, industrial facilities etc.) This type of cables is halogen-free, has flame -retarder and low smoke density.

## Teknik Bilgiler / Technical Data

| | | | | | |
|---|---|---|---|---|---|
| Kapasite / Capacitance | | | 120 nF/km | | |
| Yalıtım Direnci / Insulation Resistance | | | ≥200 M Ω x Km | | |
| Kesit / Cross Section (mm²) | 0,50 | 0,75 | 1,00 | 1,50 | 2,50 |
| İletken Direnci / Conductor Resistance (Ω x Km) | 39 | 26 | 19,50 | 13,30 | 7,98 |

| | |
|---|---|
| Çalışma Sıcaklığı / Temperature Range | - 30ºC....+90ºC |
| Çalışma Gerilimi / Operating Voltage | 300 V |
| Test Gerilimi Damar-Damar / Test Voltage Core-Core | 1200 V |
| Min. Bükülme Çapı / Min. Bending Radius | 7,5 x D mm |

## Yangın Performans Testleri / Fire Performance Tests

| | |
|---|---|
| Alev Testi<br>Flame Test | IEC 60332-1-2<br>EN 60332-1-2<br>VDE 0472-804-B |
| Alev Yayılımı Testi<br>Flame Retardant Test | IEC 60332-3-24<br>EN 60332-3-24<br>VDE 0472-804-C |
| Duman Yoğunluğu Testi<br>Smoke Density Test | IEC 61034-2<br>EN 61034-2<br>VDE 0472-813 |
| Korozif Gaz Testi<br>Test On Corrosiveness Of Combustion Gases | IEC 60754-2<br>EN 50267-2-2<br>VDE 0482-267-2-2 |

| | |
|---|---|
| Halojensizlik Testi<br>Halogen Free Test | IEC 60754-1<br>EN 50267-2-1<br>VDE 0482-267-2-1 |
| Yalıtım Sürekliliği Testi (FE 180)<br>Insulation Integrity Test (FE-180) | IEC 60331-23<br>VDE 472-814 |
| Darbe Altında Yalıtım Sürekliliği Testi (PH)<br>Circuit Integrity With Shock Test (PH) | EN 50200,<br>VDE 0482-200 |

# LIH(st)H FE180 PH120

| Kod No<br>Code No. | Damar Sayısı/Kesit<br>Number Of Cores/Cross Section (mm2) | Kablo Çapı<br>Overall Diam. (mm) | Bakır Ağırlığı (kg/km)<br>Copper Weight (kg/km) | Yaklaşık Ağırlık (kg/km)<br>Approx. Weight (kg/km) | Standart Uzunluk<br>Standard Length (m) |
|---|---|---|---|---|---|
| 33158402 | 2 x 0,50 | 5.20 | 10.49 | 35.64 | 100 / 500 / 1000 |
| 33158403 | 3 x 0,50 | 5.45 | 14.74 | 43.49 | 100 / 500 / 1000 |
| 33158404 | 4 x 0,50 | 5.90 | 18.99 | 51.79 | 100 / 500 / 1000 |
| 33158405 | 5 x 0,50 | 6.60 | 23.23 | 63.84 | 100 / 500 / 1000 |
| 33158406 | 6 x 0,50 | 7.10 | 27.48 | 72.73 | 100 / 500 / 1000 |
| 33158407 | 7 x 0,50 | 7.10 | 31.73 | 78.93 | 100 / 500 / 1000 |
| 33158408 | 8 x 0,50 | 7.85 | 35.97 | 91.24 | 100 / 500 / 1000 |
| 33158410 | 10 x 0,50 | 8.80 | 44.47 | 108.66 | 100 / 500 / 1000 |
| 33158502 | 2 x 0,75 | 5.70 | 17.24 | 46.43 | 100 / 500 / 1000 |
| 33158503 | 3 x 0,75 | 6.00 | 23.61 | 56.04 | 100 / 500 / 1000 |
| 33158504 | 4 x 0,75 | 6.70 | 29.98 | 70.43 | 100 / 500 / 1000 |
| 33158505 | 5 x 0,75 | 7.25 | 36.35 | 84.05 | 100 / 500 / 1000 |
| 33158506 | 6 x 0,75 | 7.85 | 42.72 | 96.63 | 100 / 500 / 1000 |
| 33158507 | 7 x 0,75 | 7.85 | 49.09 | 105.06 | 100 / 500 / 1000 |
| 33158508 | 8 x 0,75 | 8.75 | 55.46 | 121.44 | 100 / 500 / 1000 |
| 33158510 | 10 x 0,75 | 10.00 | 68.20 | 147.28 | 100 / 500 / 1000 |
| 33158602 | 2 x 1,00 | 5.90 | 21.49 | 51.33 | 100 / 500 / 1000 |
| 33158603 | 3 x 1,00 | 6.20 | 29.98 | 63.08 | 100 / 500 / 1000 |
| 33158604 | 4 x 1,00 | 6.95 | 38.47 | 79.88 | 100 / 500 / 1000 |
| 33158605 | 5 x 1,00 | 7.55 | 46.97 | 95.82 | 100 / 500 / 1000 |
| 33158606 | 6 x 1,00 | 8.15 | 55.46 | 110.54 | 100 / 500 / 1000 |
| 33158607 | 7 x 1,00 | 8.15 | 63.95 | 121.11 | 100 / 500 / 1000 |
| 33158608 | 8 x 1,00 | 9.25 | 72.45 | 144.00 | 100 / 500 / 1000 |
| 33158610 | 10 x 1,00 | 10.40 | 89.43 | 170.30 | 100 / 500 / 1000 |
| 33158702 | 2 x 1,50 | 7.00 | 29.31 | 70.09 | 100 / 500 / 1000 |
| 33158703 | 3 x 1,50 | 7.40 | 41.72 | 87.90 | 100 / 500 / 1000 |
| 33158704 | 4 x 1,50 | 8.05 | 54.13 | 107.64 | 100 / 500 / 1000 |
| 33158705 | 5 x 1,50 | 8.75 | 66.53 | 128.25 | 100 / 500 / 1000 |
| 33158706 | 6 x 1,50 | 9.70 | 78.94 | 154.95 | 100 / 500 / 1000 |
| 33158707 | 7 x 1,50 | 9.70 | 91.35 | 171.10 | 100 / 500 / 1000 |
| 33158708 | 8 x 1,50 | 10.85 | 103.76 | 197.45 | 100 / 500 / 1000 |
| 33158710 | 10 x 1,50 | 12.40 | 128.57 | 240.81 | 100 / 500 / 1000 |
| 33158802 | 2 x 2,50 | 7.90 | 45.86 | 93.70 | 100 / 500 / 1000 |
| 33158803 | 3 x 2,50 | 8.35 | 66.53 | 119.67 | 100 / 500 / 1000 |
| 33158804 | 4 x 2,50 | 9.30 | 87.21 | 155.59 | 100 / 500 / 1000 |
| 33158805 | 5 x 2,50 | 10.15 | 107.89 | 186.65 | 100 / 500 / 1000 |
| 33158806 | 6 x 2,50 | 11.05 | 128.57 | 221.38 | 100 / 500 / 1000 |
| 33158807 | 7 x 2,50 | 11.05 | 149.25 | 244.25 | 100 / 500 / 1000 |
| 33158808 | 8 x 2,50 | 12.60 | 169.93 | 289.03 | 100 / 500 / 1000 |
| 33158810 | 10 x 2,50 | 14.20 | 211.28 | 346.48 | 100 / 500 / 1000 |