

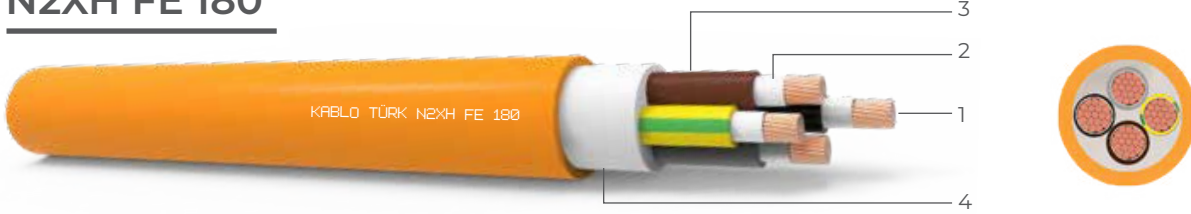
# Halojensiz Güç Kabloları

## Halogen-free Power Cables



0,6/1 kV XLPE İzoleli Halojensiz Alev İletmeyen Mika Bantlı Güç Kabloları  
0,6/1 kV XLPE Insulated Halogen Free Flame Retardant Power Cables With Mica Tapes  
TS HD 604 S1

### N2XH FE 180



#### Kablo Yapısı - Cable Construction

- 1) İç İletken  
Inner Conductor Som ve Örgülü Bakır  
Solid or Stranded Copper
- 2) İzolasyon  
Insulation Mika Bant  
Mica Band
- 3) Dolgu  
Filler XLPE İzole  
XLPE Insulation
- 4) Tel  
Wire HFFR Dolgu  
HFFR Filler
- 5) Dış Kılıf  
Outer Sheath HFFR Dış kılıf  
HFFR Outer Sheath

#### Kullanım Alanı - Application

Hastanelerde, okullarda, otellerde, alışveriş merkezlerinde bilgi işlem merkezlerinde, toplu taşımacılık tesislerinde tünellerde enerji santrallerinde kullanılırlar.

It is used in hospitals schools hotels shopping centers data processing centers public transportation premises tunnels and power plants.

#### Özellik - Speciality

Yangın esnasında yoğun duman tabakası oluşturmayan IEC 60331-21'e göre alev altında 180 dakika enerji iletimini sağlayan özel kablo  
A special cable, which does not produce a dense smoke during a fire, and provide energy transmission under flame for 180 minutes according to IEC 60331-21

#### Teknik Özellikler / Technical Properties

|   |         |
|---|---------|
| İzin verilen işletme sıcaklığı<br>Permissible operating temperature | 90 °C   |
| Kısa devre sıcaklığı<br>Short circuit temperature                   | 250 °C  |
| Test gerilimi (AC)<br>Test Voltage (AC)                             | 4 kV    |
| Serim sıcaklığı min<br>Installation temperature min.                | 5 °C    |
| Minimum Bükme Yarı Çapı<br>Minimum Bending Radius                   | 15xD    |
| Anma gerilimi<br>Rated Voltage                                      | 0,6/1kV |

#### Genel Özellikler - General Features



Max. işletme sıcaklığı  
Max. Operating temperature



Kısa devre sıcaklığı  
Short circuit temperature



Test Gerilimi  
(AC) 4 kV  
Test Voltage  
(AC) 4 kV



Aleve dayanıklılık  
Flame retardant  
IEC 60332-1



Kurşunsuz  
Lead-free



Örgülü  
Stranded



Som  
Solid



Serim sıcaklığı  
minimum 5°C  
Installation  
temperature  
min 5°C



Boru içinde  
In conduit



Açıkta  
Outdoor



Beton içinde  
In concrete



Toprak altında  
Direct buried



180 dk. devre  
bütünlüğü  
180 min circuit  
continuity



Endüstriyel tesisat  
Industrial installations

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### N2XH FE 180 (0.6/kV)

| Nominal Kesit       | Kablo Dış Çapı(Yaklaşık)           | Akım Taşıma Kapasitesi       |          | İletken DC Direnci (20°C)       | Net Ağırlık (Yaklaşık) | Ambalaj miktarı   | Ambalaj                          |
|---------------------|------------------------------------|------------------------------|----------|---------------------------------|------------------------|-------------------|----------------------------------|
|                     |                                    | Havada                       | Toprakta |                                 |                        |                   |                                  |
| Rated Cross-section | Overall Diameter of Cable (Approx) | Current Carrying Capacity in |          | Conductor DC Resistance at 20°C | Net Weight (Approx)    | Amount of Packing | Packing                          |
| mm <sup>2</sup>     | mm                                 | Air                          | Ground   | ohm / km                        | kg / km                | m                 | C: Kangal/Coil<br>R: Makara/Reel |
| 1X10 rm             | 8.15                               | 77                           | 89       | 1.83                            | 135                    | 1000              | R 600                            |
| 1X16 rm             | 9.15                               | 102                          | 115      | 1.15                            | 193                    | 1000              | R 700                            |
| 1X25 rm             | 10.95                              | 138                          | 148      | 0.727                           | 289                    | 1000              | R 800                            |
| 1X35 rm             | 12.05                              | 170                          | 177      | 0.524                           | 380                    | 1000              | R 800                            |
| 1X50 rm             | 13.646                             | 207                          | 209      | 0.387                           | 502                    | 1000              | R 900                            |
| 1X70 rm             | 15.674                             | 263                          | 256      | 0.268                           | 710                    | 1000              | R 1000                           |
| 1X95 rm             | 17.65                              | 325                          | 307      | 0.198                           | 957                    | 1000              | R 1000                           |
| 1X120 rm            | 19.158                             | 380                          | 349      | 0.153                           | 1189                   | 1000              | R 1100                           |
| 1X150 rm            | 21.238                             | 437                          | 393      | 0.124                           | 1460                   | 1000              | R 1100                           |
| 1X185 rm            | 23.89                              | 507                          | 445      | 0.0991                          | 1838                   | 1000              | R 1300                           |
| 1X240 rm            | 26.75                              | 604                          | 517      | 0.0754                          | 2382                   | 1000              | R 1400                           |
| 1X300 rm            | 28.882                             | 697                          | 663      | 0.0601                          | 2868                   | 1000              | R 1500                           |
| 2X1.5 re            | 9.85                               | 24                           | 31       | 12.1                            | 150                    | 1000              | R 700                            |
| 2X2.5 re            | 10.55                              | 32                           | 40       | 7.41                            | 182                    | 1000              | R 700                            |
| 2X4 re              | 11.55                              | 42                           | 52       | 4.61                            | 232                    | 1000              | R 800                            |
| 2X6 re              | 12.658                             | 53                           | 64       | 3.08                            | 294                    | 1000              | R 800                            |
| 2X10 rm             | 15.154                             | 74                           | 86       | 1.83                            | 454                    | 1000              | R 1000                           |
| 2X16 rm             | 17.234                             | 98                           | 112      | 1.15                            | 630                    | 1000              | R 1000                           |
| 2X25 rm             | 20.978                             | 133                          | 145      | 0.727                           | 949                    | 1000              | R 1100                           |
| 2X35 rm             | 23.266                             | 162                          | 174      | 0.524                           | 1043                   | 1000              | R 1300                           |
| 3X1.5 re            | 10.36                              | 24                           | 31       | 12.1                            | 183                    | 1000              | R 700                            |
| 3X2.5 re            | 11.12                              | 32                           | 40       | 7.41                            | 225                    | 1000              | R 800                            |
| 3X4 re              | 12.20                              | 42                           | 52       | 4.61                            | 290                    | 1000              | R 800                            |
| 3X6 re              | 13.31                              | 53                           | 64       | 3.08                            | 369                    | 1000              | R 900                            |
| 3X10 rm             | 15.89                              | 74                           | 86       | 1.83                            | 547                    | 1000              | R 1000                           |
| 3X16 rm             | 18.14                              | 98                           | 112      | 1.15                            | 764                    | 1000              | R 1100                           |
| 3X25 rm             | 22.18                              | 133                          | 145      | 0.727                           | 1171                   | 1000              | R 1200                           |
| 3X35 rm             | 24.66                              | 162                          | 174      | 0.524                           | 1519                   | 1000              | R 1400                           |
| 3X50 rm             | 28.14                              | 197                          | 206      | 0.387                           | 2002                   | 1000              | R 1500                           |
| 3X70 rm             | 33.45                              | 250                          | 254      | 0.268                           | 2871                   | 1000              | R 1600                           |
| 3X95 rm             | 37.83                              | 308                          | 305      | 0.198                           | 3805                   | 1000              | R 1700                           |
| 3X120 rm            | 41.08                              | 359                          | 348      | 0.153                           | 4673                   | 500               | R 1500                           |
| 3X150 rm            | 45.58                              | 412                          | 392      | 0.124                           | 5760                   | 500               | R 1600                           |
| 3X185 rm            | 51.30                              | 475                          | 444      | 0.0991                          | 7276                   | 500               | R 1700                           |
| 3X240 rm            | 57.48                              | 564                          | 517      | 0.0754                          | 9333                   | 250               | R 1500                           |
| 3X300 rm            | 62.09                              | 649                          | 585      | 0.0754                          | 11105                  | 250               | R 1500                           |

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### N2XH FE 180 (0.6/kV)

| Nominal Kesit       | Kablo Dış Çapı(Yaklaşık)           | Akım Taşıma Kapasitesi       |          | İletken DC Direnci (20°C)       | Net Ağırlık (Yaklaşık) | Ambalaj miktarı   | Ambalaj                          |
|---------------------|------------------------------------|------------------------------|----------|---------------------------------|------------------------|-------------------|----------------------------------|
|                     |                                    | Havada                       | Toprakta |                                 |                        |                   |                                  |
| Rated Cross-section | Overall Diameter of Cable (Approx) | Current Carrying Capacity in |          | Conductor DC Resistance at 20°C | Net Weight (Approx)    | Amount of Packing | Packing                          |
| mm <sup>2</sup>     | mm                                 | Air                          | Ground   | ohm / km                        | kg / km                | m                 | C: Kangal/Coil<br>R: Makara/Reel |
| 1X10 rm             | 8.15                               | 77                           | 89       | 1.83                            | 135                    | 1000              | R 600                            |
| 1X16 rm             | 9.15                               | 102                          | 115      | 1.15                            | 193                    | 1000              | R 700                            |
| 1X25 rm             | 10.95                              | 138                          | 148      | 0.727                           | 289                    | 1000              | R 800                            |
| 1X35 rm             | 12.05                              | 170                          | 177      | 0.524                           | 380                    | 1000              | R 800                            |
| 1X50 rm             | 13.646                             | 207                          | 209      | 0.387                           | 502                    | 1000              | R 900                            |
| 1X70 rm             | 15.674                             | 263                          | 256      | 0.268                           | 710                    | 1000              | R 1000                           |
| 1X95 rm             | 17.65                              | 325                          | 307      | 0.198                           | 957                    | 1000              | R 1000                           |
| 1X120 rm            | 19.158                             | 380                          | 349      | 0.153                           | 1189                   | 1000              | R 1100                           |
| 1X150 rm            | 21.238                             | 437                          | 393      | 0.124                           | 1460                   | 1000              | R 1100                           |
| 1X185 rm            | 23.89                              | 507                          | 445      | 0.0991                          | 1838                   | 1000              | R 1300                           |
| 1X240 rm            | 26.75                              | 604                          | 517      | 0.0754                          | 2382                   | 1000              | R 1400                           |
| 1X300 rm            | 28.882                             | 697                          | 663      | 0.0601                          | 2868                   | 1000              | R 1500                           |
| 2X1.5 re            | 9.85                               | 24                           | 31       | 12.1                            | 150                    | 1000              | R 700                            |
| 2X2.5 re            | 10.55                              | 32                           | 40       | 7.41                            | 182                    | 1000              | R 700                            |
| 2X4 re              | 11.55                              | 42                           | 52       | 4.61                            | 232                    | 1000              | R 800                            |
| 2X6 re              | 12.658                             | 53                           | 64       | 3.08                            | 294                    | 1000              | R 800                            |
| 2X10 rm             | 15.154                             | 74                           | 86       | 1.83                            | 454                    | 1000              | R 1000                           |
| 2X16 rm             | 17.234                             | 98                           | 112      | 1.15                            | 630                    | 1000              | R 1000                           |
| 2X25 rm             | 20.978                             | 133                          | 145      | 0.727                           | 949                    | 1000              | R 1100                           |
| 2X35 rm             | 23.266                             | 162                          | 174      | 0.524                           | 1043                   | 1000              | R 1300                           |
| 3X1.5 re            | 10.36                              | 24                           | 31       | 12.1                            | 183                    | 1000              | R 700                            |
| 3X2.5 re            | 11.12                              | 32                           | 40       | 7.41                            | 225                    | 1000              | R 800                            |
| 3X4 re              | 12.20                              | 42                           | 52       | 4.61                            | 290                    | 1000              | R 800                            |
| 3X6 re              | 13.31                              | 53                           | 64       | 3.08                            | 369                    | 1000              | R 900                            |
| 3X10 rm             | 15.89                              | 74                           | 86       | 1.83                            | 547                    | 1000              | R 1000                           |
| 3X16 rm             | 18.14                              | 98                           | 112      | 1.15                            | 764                    | 1000              | R 1100                           |
| 3X25 rm             | 22.18                              | 133                          | 145      | 0.727                           | 1171                   | 1000              | R 1200                           |
| 3X35 rm             | 24.66                              | 162                          | 174      | 0.524                           | 1519                   | 1000              | R 1400                           |
| 3X50 rm             | 28.14                              | 197                          | 206      | 0.387                           | 2002                   | 1000              | R 1500                           |
| 3X70 rm             | 33.45                              | 250                          | 254      | 0.268                           | 2871                   | 1000              | R 1600                           |
| 3X95 rm             | 37.83                              | 308                          | 305      | 0.198                           | 3805                   | 1000              | R 1700                           |
| 3X120 rm            | 41.08                              | 359                          | 348      | 0.153                           | 4673                   | 500               | R 1500                           |
| 3X150 rm            | 45.58                              | 412                          | 392      | 0.124                           | 5760                   | 500               | R 1600                           |
| 3X185 rm            | 51.30                              | 475                          | 444      | 0.0991                          | 7276                   | 500               | R 1700                           |
| 3X240 rm            | 57.48                              | 564                          | 517      | 0.0754                          | 9333                   | 250               | R 1500                           |
| 3X300 rm            | 62.09                              | 649                          | 585      | 0.0754                          | 11105                  | 250               | R 1500                           |

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### N2XH FE 180 (0.6/kV)

| Nominal Kesit       | Kablo Dış Çapı(Yaklaşık)           | Akım Taşıma Kapasitesi       |          | İletken DC Direnci (20°C)       | Net Ağırlık (Yaklaşık) | Ambalaj miktarı   | Ambalaj                          |
|---------------------|------------------------------------|------------------------------|----------|---------------------------------|------------------------|-------------------|----------------------------------|
|                     |                                    | Havada                       | Toprakta |                                 |                        |                   |                                  |
| Rated Cross-section | Overall Diameter of Cable (Approx) | Current Carrying Capacity in |          | Conductor DC Resistance at 20°C | Net Weight (Approx)    | Amount of Packing | Packing                          |
| mm <sup>2</sup>     | mm                                 | Air                          | Ground   | ohm / km                        | kg / km                | m                 | C: Kangal/Coil<br>R: Makara/Reel |
| 4X1.5 re            | 11.14                              | 24                           | 31       | 12.10                           | 211                    | 1000              | R 800                            |
| 4X2.5 re            | 11.99                              | 32                           | 40       | 7.41                            | 264                    | 1000              | R 800                            |
| 4X4 re              | 13.19                              | 42                           | 52       | 4.61                            | 345                    | 1000              | R 800                            |
| 4X6 re              | 14.46                              | 53                           | 64       | 3.08                            | 444                    | 1000              | R 900                            |
| 4X10 rm             | 17.97                              | 74                           | 86       | 1.83                            | 694                    | 1000              | R 1100                           |
| 4X16 rm             | 20.54                              | 98                           | 112      | 1.15                            | 975                    | 1000              | R 1100                           |
| 4X25 rm             | 25.39                              | 133                          | 145      | 0.727                           | 1518                   | 1000              | R 1400                           |
| 4X35 rm             | 28.25                              | 162                          | 174      | 0.524                           | 1966                   | 1000              | R 1500                           |
| 4X50 rm             | 32.11                              | 197                          | 206      | 0.387                           | 2586                   | 1000              | R 1600                           |
| 4X70 rm             | 37.05                              | 250                          | 254      | 0.268                           | 3609                   | 1000              | R 1800                           |
| 4X95 rm             | 41.81                              | 308                          | 305      | 0.198                           | 4778                   | 500               | R 1500                           |
| 4X120 rm            | 45.45                              | 359                          | 348      | 0.153                           | 5888                   | 500               | R 1500                           |
| 4X150 rm            | 50.53                              | 412                          | 392      | 0.124                           | 7275                   | 500               | R 1700                           |
| 4X185 rm            | 56.88                              | 475                          | 444      | 0.0991                          | 9189                   | 250               | R 1500                           |
| 4X240 rm            | 63.77                              | 564                          | 517      | 0.0754                          | 11808                  | 250               | R 1600                           |
| 5X1.5 re            | 12.93                              | 24                           | 31       | 12.10                           | 282                    | 1000              | R 800                            |
| 5X2.5 re            | 14.04                              | 32                           | 40       | 7.41                            | 354                    | 1000              | R 900                            |
| 5X4 re              | 15.39                              | 42                           | 52       | 4.61                            | 458                    | 1000              | R 1000                           |
| 5X6 re              | 16.82                              | 53                           | 64       | 3.08                            | 585                    | 1000              | R 1000                           |
| 5X10 rm             | 20.04                              | 74                           | 86       | 1.83                            | 867                    | 1000              | R 1100                           |
| 5X16 rm             | 22.90                              | 98                           | 112      | 1.15                            | 1218                   | 1000              | R 1300                           |
| 5X25 rm             | 27.85                              | 133                          | 145      | 0.727                           | 1864                   | 1000              | R 1500                           |
| 5X35 rm             | 31.45                              | 162                          | 174      | 0.524                           | 2455                   | 1000              | R 1600                           |
| 5X50 rm             | 35.34                              | 197                          | 206      | 0.387                           | 3191                   | 1000              | R 1700                           |
| 5X70 rm             | 40.86                              | 250                          | 254      | 0.268                           | 4464                   | 500               | R 1500                           |
| 5X95 rm             | 46.17                              | 308                          | 305      | 0.198                           | 5920                   | 500               | R 1600                           |
| 5X120 rm            | 50.24                              | 359                          | 348      | 0.153                           | 7303                   | 500               | R 1700                           |
| 5X150 rm            | 55.90                              | 412                          | 392      | 0.124                           | 9031                   | 500               | R 1800                           |
| 5X185 rm            | 62.98                              | 475                          | 444      | 0.0991                          | 11417                  | 250               | R 1600                           |
| 5X240 rm            | 70.68                              | 564                          | 517      | 0.0754                          | 14685                  | 250               | R 1700                           |
| 3X16+10 rm          | 19.95                              | 98                           | 112      | 1.15/1.83                       | 826                    | 1000              | R 1100                           |
| 3X25+16 rm          | 24.39                              | 133                          | 145      | 0.727/1.15                      | 1269                   | 1000              | R 1400                           |
| 3X35+16 rm          | 26.47                              | 162                          | 174      | 0.524/1.15                      | 1611                   | 1000              | R 1400                           |
| 3X50+25 rm          | 30.52                              | 197                          | 206      | 0.387/0.727                     | 2165                   | 1000              | R 1500                           |
| 3X70+35 rm          | 34.21                              | 250                          | 254      | 0.268/0.524                     | 2969                   | 1000              | R 1700                           |
| 3X95+50 rm          | 39.46                              | 308                          | 305      | 0.193/0.387                     | 4029                   | 500               | R 1500                           |
| 3X120+70 rm         | 43.42                              | 359                          | 348      | 0.153/0.268                     | 5078                   | 500               | R 1500                           |
| 3X150+70 rm         | 47.20                              | 412                          | 392      | 0.124/0.268                     | 6058                   | 500               | R 1600                           |
| 3X185+95 rm         | 53.21                              | 475                          | 444      | 0.0991/0.193                    | 7706                   | 500               | R 1800                           |
| 3X240+120 rm        | 58.40                              | 564                          | 517      | 0.754/0.153                     | 9804                   | 250               | R 1500                           |