



# FR-N1XD4-AR (X00-A) FR-N1XD9-AR (X00/0-A)

XLPE insulated Aerial Bundled Cables

## APPLICATION

For distributive low overhead network in the city, pros urban and rural areas.  
For supply of remote facilities and villages of temporary and permanent character.  
For above-ground house connections.

## TECHNICAL CHARACTERISTICS

CPR Class: Fca  
Test voltage: 4 Kv  
Rated voltage: 0,6/1 kV  
Max. conductor temperature: 90°C  
Max. short-circuit temperature: 250°C

## CONSTRUCTION

Phase conductor: Circular compacted Al rope, class 2  
Neutral conductor: Circular compacted Al or Al Alloy rope, class 2  
Insulation: XLPE compound

## STANDARD

HD 626 S1, NF C33-209, JUS N.C5.250

## CORE IDENTIFICATION

According to HD 626 S1

## CERTIFICATION



## PHASE CONDUCTOR:

| NOMINAL CROSS-SECTION | MIN. WIRE NUMBER | OUTER DIAM. OF CONDUCTOR |      | COND. RESISTANCE 20°C | MAX. CURRENT CAPACITY IN AIR AT 30°C | MAX. SHORT - CIRCUIT CAPACITY | BREAKING LOAD OF MESSENGER | INSULATION THICKNESS | INSULATED CORE DIAM. |      |
|-----------------------|------------------|--------------------------|------|-----------------------|--------------------------------------|-------------------------------|----------------------------|----------------------|----------------------|------|
| mm <sup>2</sup>       | No               | mm                       |      | Ω/km                  | A                                    | kA                            | daN                        | mm                   | mm                   |      |
|                       |                  | MIN                      | MAX  |                       |                                      |                               |                            |                      | MIN                  | MAX  |
| 16                    | 7                | 4,6                      | 5,1  | 1,910                 | 93                                   | 1,5                           | -                          | 1,2                  | 7,0                  | 7,8  |
| 25                    | 7                | 5,8                      | 6,3  | 1,200                 | 112                                  | 2,34                          | -                          | 1,4                  | 8,6                  | 9,4  |
| 35                    | 7                | 6,8                      | 7,3  | 0,868                 | 131                                  | 3,25                          | -                          | 1,6                  | 10,0                 | 10,9 |
| 50                    | 7                | 7,9                      | 8,4  | 0,641                 | 168                                  | 4,67                          | -                          | 1,6                  | 11,1                 | 12,0 |
| 70                    | 12               | 9,7                      | 10,2 | 0,443                 | 213                                  | 6,54                          | -                          | 1,8                  | 13,3                 | 14,2 |
| 95                    | 19               | 11                       | 12   | 0,320                 | 258                                  | 8,88                          | -                          | 1,8                  | 14,6                 | 15,7 |
| 120                   | 19               | 12                       | 13,1 | 0,253                 | 300                                  | 11,22                         | -                          | 1,8                  | 15,6                 | 16,7 |
| 150                   | 19               | 13,9                     | 15   | 0,206                 | 344                                  | 14,02                         | -                          | 1,7                  | 17,3                 | 18,6 |

## MESSENGER:

| NOMINAL CROSS-SECTION | MIN. WIRE NUMBER | OUTER DIAM. OF CONDUCTOR |       | COND. RESISTANCE 20°C | MAX. CURRENT CAPACITY IN AIR AT 30°C | MAX. SHORT - CIRCUIT CAPACITY | BREAKING LOAD OF MESSENGER | INSULATION THICKNESS | INSULATED CORE DIAM. |       |
|-----------------------|------------------|--------------------------|-------|-----------------------|--------------------------------------|-------------------------------|----------------------------|----------------------|----------------------|-------|
| mm <sup>2</sup>       | No               | mm                       |       | Ω/km                  | A                                    | kA                            | daN                        | mm                   | mm                   |       |
|                       |                  | MIN                      | MAX   |                       |                                      |                               |                            |                      | MIN                  | MAX   |
| 54,6                  | 7                | 9,20                     | 9,60  | 0,630                 | -                                    | -                             | 1660                       | 1,6                  | 12,30                | 13,00 |
| 70                    | 7                | 10,00                    | 10,20 | 0,500                 | -                                    | -                             | 2050                       | 1,5                  | 12,90                | 13,60 |
| 71,5                  | 7                | 9,2                      | -     | 0,628                 | -                                    | -                             | 2050                       | 1,6                  | 12,2                 | 13,3  |
| 95                    | 7                | 12,20                    | 12,90 | 0,340                 | -                                    | -                             | 2750                       | 1,6                  | 15,30                | 16,30 |

| PRODUCT                    | MAX. LAY LENGTH | APPROX. OUTER DIAMETER | APPROX. WEIGHT OF CABLE | PACKING | PACKING - DRUM |
|----------------------------|-----------------|------------------------|-------------------------|---------|----------------|
|                            | mm              | mm                     | kg/km                   | m       | No             |
| FR-NIXD4-AR 2x16           | 300             | 15,0                   | 137                     | 1000    | 9              |
| FR-NIXD4-AR 4x16           | 350             | 18,0                   | 270                     | 1000    | 11             |
| FR-NIXD4-AR 5x16           | 400             | 19,4                   | 337                     | 1000    | 12             |
| FR-NIXD4-AR 2x25           | 350             | 18,4                   | 214                     | 1000    | 12             |
| FR-NIXD4-AR 4x25           | 430             | 22,2                   | 431                     | 1000    | 13             |
| FR-NIXD4-AR 4x35           | 450             | 23,7                   | 550                     | 1000    | 13             |
| FR-NIXD4-AR 4x50           | 480             | 27,5                   | 740                     | 1000    | 15             |
| FR-NIXD4-AR 4x70           | 550             | 31,9                   | 1000                    | 500     | 15             |
| FR-NIXD4-AR 4x95           | 600             | 37,0                   | 1334                    | 500     | 16             |
| FR-NIXD9-AR 3x35+54,6      | 760             | 24,6                   | 370                     | 1000    | 15             |
| FR-NIXD9-AR 3x35+70        | 760             | 29,8                   | 688                     | 1000    | 15             |
| FR-NIXD9-AR 3x35+70+2x16   | 760             | 29,8                   | 825                     | 1000    | 16             |
| FR-NIXD9-AR 3x50+54,6      | 850             | 33,1                   | 782                     | 1000    | 16             |
| FR-NIXD9-AR 3x50+70        | 850             | 33,1                   | 809                     | 1000    | 16             |
| FR-NIXD9-AR 3x50+70+2x16   | 850             | 33,1                   | 945                     | 1000    | 16             |
| FR-NIXD9-AR 3x70+54,6      | 980             | 38,1                   | 1020                    | 500     | 16             |
| FR-NIXD9-AR 3x70+54,6+1x16 | 980             | 38,1                   | 1087                    | 500     | 16             |
| FR-NIXD9-AR 3x70+70        | 980             | 38,6                   | 1044                    | 500     | 16             |
| FR-NIXD9-AR 3x70+70/12     | 980             | 39,5                   | 1125                    | 500     | 16             |
| FR-NIXD9-AR 3x70+70+2x16   | 980             | 38,6                   | 1181                    | 500     | 16             |
| FR-NIXD9-AR 3x70+70+2x25   | 980             | 40,0                   | 1253                    | 500     | 18             |
| FR-NIXD9-AR 3x95+70        | 1100            | 42,0                   | 1289                    | 500     | 18             |
| FR-NIXD9-AR 3x95+70/12     | 1100            | 43,5                   | 1370                    | 500     | 18             |