



# NA2XS(F)2Yv 12/20 kV

XLPE/HDPE medium voltage underground cable,  
longitudinally water-proof

MEDIUM VOLTAGE CABLES UP TO 36 kV

For fixed installation for high requirements in the ground subject to external effects of moisture, in the open air and in cable ducts for industrial and distribution mains – as permitted by the local building regulations – under severe mechanical stressing during installation and operation.



## TECHNICAL DATA



**Standard**  
DIN VDE 0276-620



**Certificate**  
VDE Germany



**Test Voltage**  
36 kV



**Rated Voltage**  
12/20 kV (U<sub>0</sub>/U)



**Bending radius (min.)**  
15 x Ø of cable



**Temperature range**  
Laying temperature: min. -20°C  
Operating temperature: -50°C up to 90°C  
Conductor temperature: max. 90°C  
Short circuit temperature: max. 250°C

## DESIGN



| Number of cores x nominal cross-section / cross-section of screen (mm <sup>2</sup> ) | Mutual capacitance (nF/km) | Max. conductor resistance (Ω/km) | Current rating in the earth (A) | Current rating in the air (A) | Outer diameter appr. (mm) | Total weight appr. (kg/km) |
|--------------------------------------------------------------------------------------|----------------------------|----------------------------------|---------------------------------|-------------------------------|---------------------------|----------------------------|
| 1 x 35 RM / 16                                                                       | 0.16                       | 0.868                            | 146                             | 155                           | 28                        | 650                        |
| 1 x 50 RM / 16                                                                       | 0.18                       | 0.641                            | 172                             | 185                           | 28.9                      | 780                        |
| 1 x 70 RM / 16                                                                       | 0.2                        | 0.443                            | 210                             | 231                           | 30.8                      | 890                        |
| 1 x 95 RM / 16                                                                       | 0.22                       | 0.32                             | 251                             | 280                           | 32.5                      | 1000                       |
| 1 x 120 RM / 16                                                                      | 0.24                       | 0.253                            | 325                             | 289                           | 33.9                      | 1100                       |
| 1 x 150 RM / 25                                                                      | 0.26                       | 0.206                            | 319                             | 366                           | 35.1                      | 1290                       |
| 1 x 185 RM / 25                                                                      | 0.27                       | 0.164                            | 361                             | 420                           | 36.9                      | 1440                       |
| 1 x 240 RM / 25                                                                      | 0.31                       | 0.125                            | 417                             | 4696                          | 39.2                      | 1660                       |
| 1 x 300 RM / 25                                                                      | 0.33                       | 0.1                              | 471                             | 569                           | 41.7                      | 1900                       |
| 1 x 400 RM / 35                                                                      | 0.37                       | 0.0778                           | 535                             | 660                           | 45.2                      | 2350                       |
| 1 x 500 RM / 35                                                                      | 0.41                       | 0.0605                           | 602                             | 767                           | 48.5                      | 2750                       |
| 1 x 630 RM / 35                                                                      | 0.43                       | 0.0469                           | 675                             | 890                           | 52                        | 3240                       |
| 1 x 800 RM / 35                                                                      | 0.48                       | 0.0367                           | 750                             | 1015                          | 56.2                      | 3880                       |
| 1 x 1000 RM / 35                                                                     | 0.54                       | 0.0291                           | 820                             | 1135                          | 60.9                      | 4570                       |

**CONTACT PERSON**

**Dogan Özcan**  
 Head of Technical Department  
 +43 (0) 1 70170-154  
 dogan.oezcan@skw.at

