



# NA2XS(F)2Y

Medium Voltage Cables



## DESCRIPTION

The NA2XS(F)2Y cable is a longitudinally watertight medium-voltage cable with an aluminium conductor, XLPE insulation, and a durable PE sheath. It is designed for energy-efficient and safe

## TECHNICAL DATA

|                        |                           |
|------------------------|---------------------------|
| AL / CU                | Al foil                   |
| Aluminum               | No                        |
| CE conformity          | Conductive tape below     |
| yes                    | Yes                       |
| Copper screen          | CPR class                 |
| Yes                    | Fca                       |
| Flame retardant        | Insulation                |
| no                     | XLPE                      |
| Insulation color       | Max operating temp        |
| uncoloured             | +90                       |
| Max short-circuit temp | Min laying temp           |
| +250                   | -20                       |
| Min storage temp       | Non-conductive tape above |
| -35                    | Yes                       |
| Operating temp range   | Packaging                 |
| -35 - +90              | wooden or metal drums     |
| Sheath                 | Sheath color              |
| PE                     | black                     |



## NA2XS(F)2Y

### CROSS-SECTION DATA — 6/10 kV

Spannung: 6/10 kV

| Cores & cross-section | DI [mm] | Wi [mm] | lbi [A] | lbe [A] | Ik [kA] | Wm [mm] | Rbv [mm] | AL / CU       | G [kg/km] | OD_cond [mm] | Iso  | Sh | T_op_max [C] | T_sc_max |          |
|-----------------------|---------|---------|---------|---------|---------|---------|----------|---------------|-----------|--------------|------|----|--------------|----------|----------|
| 1x50/16               | 16.4    | 3.4     | 0.2k    | 0.2k    | 4.7     | 2.1     | 0.4k     | Aluminum 0.6k | 8.3       | 8.3          | XLPE | PE | +90          | +250     | -35- +90 |
| 1x70/16               | 17.9    | 3.4     | 0.2k    | 0.2k    | 6.6     | 2.1     | 0.4k     | Aluminum 0.7k | 9.8       | 9.8          | XLPE | PE | +90          | +250     | -35- +90 |
| 1x95/16               | 19.4    | 3.4     | 0.3k    | 0.2k    | 9       | 2.1     | 0.4k     | Aluminum 0.8k | 11.3      | 11.3         | XLPE | PE | +90          | +250     | -35- +90 |
| 1x120/16              | 20.9    | 3.4     | 0.3k    | 0.3k    | 11.3    | 2.1     | 0.4k     | Aluminum 0.9k | 12.8      | 12.8         | XLPE | PE | +90          | +250     | -35- +90 |
| 1x150/25              | 22.3    | 3.4     | 0.4k    | 0.3k    | 14.2    | 2.1     | 0.5k     | Aluminum 1.1k | 14.2      | 14.2         | XLPE | PE | +90          | +250     | -35- +90 |
| 1x185/25              | 23.9    | 3.4     | 0.4k    | 0.4k    | 17.5    | 2.1     | 0.5k     | Aluminum 1.2k | 15.8      | 15.8         | XLPE | PE | +90          | +250     | -35- +90 |
| 1x240/25              | 26.2    | 3.4     | 0.5k    | 0.4k    | 22.7    | 2.1     | 0.5k     | Aluminum 1.4k | 18.1      | 18.1         | XLPE | PE | +90          | +250     | -35- +90 |
| 1x300/25              | 28.3    | 3.4     | 0.6k    | 0.5k    | 28.4    | 2.1     | 0.6k     | Aluminum 1.7k | 20.2      | 20.2         | XLPE | PE | +90          | +250     | -35- +90 |
| 1x400/35              | 31.4    | 3.4     | 0.7k    | 0.5k    | 37.8    | 2.1     | 0.6k     | Aluminum 2.1k | 23.3      | 23.3         | XLPE | PE | +90          | +250     | -35- +90 |
| 1x500/35              | 34.6    | 3.4     | 0.8k    | 0.6k    | 47.3    | 2.1     | 0.6k     | Aluminum 2.5k | 26.5      | 26.5         | XLPE | PE | +90          | +250     | -35- +90 |
| 1x630/35              | 38      | 3.4     | 0.9k    | 0.7k    | 59.6    | 2.1     | 0.7k     | Aluminum 2.9k | 29.9      | 29.9         | XLPE | PE | +90          | +250     | -35- +90 |
| 1x800/35              | 42.3    | 3.4     | 1k      | 0.8k    | 75.6    | 2.4     | 0.8k     | Aluminum 3.5k | 34.2      | 34.2         | XLPE | PE | +90          | +250     | -35- +90 |
| 1x1000/35             | 46.2    | 3.4     | 1.2k    | 0.9k    | 94      | 2.4     | 0.8k     | Aluminum 4.2k | 38.1      | 38.1         | XLPE | PE | +90          | +250     | -35- +90 |

### CROSS-SECTION DATA — 12/20 kV

Spannung: 12/20 kV

| Cores & cross-section | DI [mm] | Wi [mm] | lbi [A] | lbe [A] | Ik [kA] | Wm [mm] | Rbv [mm] | AL / CU       | G [kg/km] | OD_cond [mm] | Iso  | Sh | T_op_max [C] | T_sc_max |          |
|-----------------------|---------|---------|---------|---------|---------|---------|----------|---------------|-----------|--------------|------|----|--------------|----------|----------|
| 1x50/16               | 20.5    | 5.5     | 0.2k    | 0.2k    | 4.7     | 2.1     | 0.4k     | Aluminum 0.8k | 8.3       | 8.3          | XLPE | PE | +90          | +250     | -35- +90 |
| 1x70/16               | 22      | 5.5     | 0.2k    | 0.2k    | 6.6     | 2.1     | 0.5k     | Aluminum 0.9k | 9.8       | 9.8          | XLPE | PE | +90          | +250     | -35- +90 |
| 1x95/16               | 23.5    | 5.5     | 0.3k    | 0.3k    | 9       | 2.1     | 0.5k     | Aluminum 1k   | 11.3      | 11.3         | XLPE | PE | +90          | +250     | -35- +90 |
| 1x120/16              | 25      | 5.5     | 0.3k    | 0.3k    | 11.3    | 2.1     | 0.5k     | Aluminum 1.1k | 12.8      | 12.8         | XLPE | PE | +90          | +250     | -35- +90 |
| 1x150/25              | 26.4    | 5.5     | 0.4k    | 0.3k    | 14.2    | 2.1     | 0.5k     | Aluminum 1.3k | 14.2      | 14.2         | XLPE | PE | +90          | +250     | -35- +90 |
| 1x185/25              | 28      | 5.5     | 0.4k    | 0.4k    | 17.5    | 2.1     | 0.5k     | Aluminum 1.4k | 15.8      | 15.8         | XLPE | PE | +90          | +250     | -35- +90 |
| 1x240/25              | 30.3    | 5.5     | 0.5k    | 0.4k    | 22.7    | 2.1     | 0.6k     | Aluminum 1.6k | 18.1      | 18.1         | XLPE | PE | +90          | +250     | -35- +90 |
| 1x300/25              | 32.4    | 5.5     | 0.6k    | 0.5k    | 28.4    | 2.1     | 0.6k     | Aluminum 1.9k | 20.2      | 20.2         | XLPE | PE | +90          | +250     | -35- +90 |
| 1x400/35              | 35.5    | 5.5     | 0.7k    | 0.5k    | 37.8    | 2.1     | 0.7k     | Aluminum 2.3k | 23.3      | 23.3         | XLPE | PE | +90          | +250     | -35- +90 |
| 1x500/35              | 38.7    | 5.5     | 0.8k    | 0.6k    | 47.3    | 2.1     | 0.7k     | Aluminum 2.7k | 26.5      | 26.5         | XLPE | PE | +90          | +250     | -35- +90 |
| 1x630/35              | 42.1    | 5.5     | 0.9k    | 0.7k    | 59.6    | 2.4     | 0.8k     | Aluminum 3.2k | 29.9      | 29.9         | XLPE | PE | +90          | +250     | -35- +90 |
| 1x800/35              | 46.4    | 5.5     | 1k      | 0.8k    | 75.6    | 2.4     | 0.8k     | Aluminum 3.8k | 34.2      | 34.2         | XLPE | PE | +90          | +250     | -35- +90 |
| 1x1000/35             | 50.3    | 5.5     | 1.1k    | 0.8k    | 94.6    | 2.4     | 0.9k     | Aluminum 4.6k | 38.1      | 38.1         | XLPE | PE | +90          | +250     | -35- +90 |

### CROSS-SECTION DATA — 18/30 kV

Spannung: 18/30 kV

| Cores & cross-section | DI [mm] | Wi [mm] | lbi [A] | lbe [A] | Ik [kA] | Wm [mm] | Rbv [mm] | AL / CU       | G [kg/km] | OD_cond [mm] | Iso  | Sh | T_op_max [C] | T_sc_max |          |
|-----------------------|---------|---------|---------|---------|---------|---------|----------|---------------|-----------|--------------|------|----|--------------|----------|----------|
| 1x50/16               | 25.5    | 8       | 0.2k    | 0.2k    | 4.7     | 2.1     | 0.5k     | Aluminum 1k   | 8.3       | 8.3          | XLPE | PE | +90          | +250     | -35- +90 |
| 1x70/16               | 27      | 8       | 0.2k    | 0.2k    | 6.6     | 2.1     | 0.5k     | Aluminum 1.1k | 9.8       | 9.8          | XLPE | PE | +90          | +250     | -35- +90 |
| 1x95/16               | 28.5    | 8       | 0.3k    | 0.3k    | 9       | 2.1     | 0.6k     | Aluminum 1.2k | 11.3      | 11.3         | XLPE | PE | +90          | +250     | -35- +90 |
| 1x120/16              | 30      | 8       | 0.3k    | 0.3k    | 11.3    | 2.1     | 0.6k     | Aluminum 1.3k | 12.8      | 12.8         | XLPE | PE | +90          | +250     | -35- +90 |



## NA2XS(F)2Y

| Cores & cross-section | DI [mm] | Wi [mm] | Ibl [A] | Ibe [A] | I <sub>k</sub> [kA] | Wm [mm] | Rbv [mm] | AL / CU  | G [kg/km] | OD_cond [mm] | Iso  | Sh | T <sub>op_max</sub> [C] | T <sub>sc_max</sub> |          |    |
|-----------------------|---------|---------|---------|---------|---------------------|---------|----------|----------|-----------|--------------|------|----|-------------------------|---------------------|----------|----|
| 1x150/25              | 31.4    | 8       | 0.4k    | 0.3k    | 14.2                | 2.1     | 0.6k     | Aluminum | 1.5k      | 14.2         | XLPE | PE | +90                     | +250                | -35- +90 | -3 |
| 1x185/25              | 33      | 8       | 0.4k    | 0.4k    | 17.5                | 2.1     | 0.6k     | Aluminum | 1.7k      | 15.8         | XLPE | PE | +90                     | +250                | -35- +90 | -3 |
| 1x240/25              | 35.3    | 8       | 0.5k    | 0.4k    | 22.7                | 2.1     | 0.7k     | Aluminum | 1.9k      | 18.1         | XLPE | PE | +90                     | +250                | -35- +90 | -3 |
| 1x300/25              | 37.4    | 8       | 0.6k    | 0.5k    | 28.4                | 2.1     | 0.7k     | Aluminum | 2.2k      | 20.2         | XLPE | PE | +90                     | +250                | -35- +90 | -3 |
| 1x400/35              | 40.5    | 8       | 0.7k    | 0.5k    | 37.8                | 2.1     | 0.7k     | Aluminum | 2.7k      | 23.3         | XLPE | PE | +90                     | +250                | -35- +90 | -3 |
| 1x500/35              | 43.7    | 8       | 0.8k    | 0.6k    | 47.3                | 2.4     | 0.8k     | Aluminum | 3.1k      | 26.5         | XLPE | PE | +90                     | +250                | -35- +90 | -3 |
| 1x630/35              | 47.1    | 8       | 0.9k    | 0.7k    | 59.6                | 2.4     | 0.8k     | Aluminum | 3.6k      | 29.9         | XLPE | PE | +90                     | +250                | -35- +90 | -3 |
| 1x800/35              | 51.4    | 8       | 1k      | 0.8k    | 75.6                | 2.4     | 0.9k     | Aluminum | 4.3k      | 34.2         | XLPE | PE | +90                     | +250                | -35- +90 | -3 |
| 1x1000/35             | 55.3    | 8       | 1.1k    | 0.8k    | 94.6                | 2.4     | 1k       | Aluminum | 5.1k      | 38.1         | XLPE | PE | +90                     | +250                | -35- +90 | -3 |