



# NA2XS<sub>Y</sub>

Medium Voltage Cables



## DESCRIPTION

The NA2XS<sub>Y</sub> cable is a medium-voltage cable with aluminium conductor, XLPE insulation, and copper shielding, suitable for underground installation. It is designed for demanding power

## TECHNICAL DATA

|                           |                        |
|---------------------------|------------------------|
| AL / CU                   | Al foil                |
| Aluminum                  | No                     |
| CE conformity             | Conductive tape below  |
| yes                       | Yes                    |
| Copper screen             | CPR class              |
| Yes                       | Eca                    |
| Insulation                | Insulation color       |
| XLPE                      | uncoloured             |
| Max operating temp        | Max short-circuit temp |
| +90                       | +250                   |
| Min laying temp           | Min storage temp       |
| -5                        | -25                    |
| Non-conductive tape above | Operating temp range   |
| Yes                       | -35 - +90              |
| Packaging                 | Sheath                 |
| wooden or metal drums     | PVC                    |
| Sheath color              |                        |
| red or black              |                        |



## NA2XS

### 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 |          |    |
|-----------------------|---------|---------|---------|---------|---------|---------|----------|---------------|-----------|--------------|------|-----|--------------|----------|----------|----|
| 1x35/16               | 15.3    | 3.4     | 0.2k    | 0.1k    | 3.3     | 2.1     | 0.4k     | Aluminum 0.7k | 0.7k      | 7.2          | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x50/16               | 16.4    | 3.4     | 0.2k    | 0.2k    | 4.7     | 2.1     | 0.4k     | Aluminum 0.7k | 0.7k      | 8.3          | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x70/16               | 17.9    | 3.4     | 0.2k    | 0.2k    | 6.6     | 2.1     | 0.4k     | Aluminum 0.8k | 0.8k      | 9.8          | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x95/16               | 19.4    | 3.4     | 0.3k    | 0.2k    | 9       | 2.1     | 0.4k     | Aluminum 0.9k | 0.9k      | 11.3         | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x120/16              | 20.9    | 3.4     | 0.3k    | 0.3k    | 11.3    | 2.1     | 0.5k     | Aluminum 1k   | 1k        | 12.8         | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x150/25              | 22.3    | 3.4     | 0.4k    | 0.3k    | 14.2    | 2.1     | 0.5k     | Aluminum 1.2k | 1.2k      | 14.2         | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x185/16              | 23.9    | 3.4     | 0.4k    | 0.4k    | 17.5    | 2.1     | 0.5k     | Aluminum 1.3k | 1.3k      | 15.8         | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x185/25              | 23.9    | 3.4     | 0.4k    | 0.4k    | 17.5    | 2.1     | 0.5k     | Aluminum 1.4k | 1.4k      | 15.8         | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x240/25              | 26.2    | 3.4     | 0.5k    | 0.4k    | 22.7    | 2.1     | 0.5k     | Aluminum 1.6k | 1.6k      | 18.1         | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x300/25              | 28.3    | 3.4     | 0.6k    | 0.5k    | 28.4    | 2.1     | 0.6k     | Aluminum 1.8k | 1.8k      | 20.2         | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x400/35              | 31.4    | 3.4     | 0.7k    | 0.5k    | 37.8    | 2.1     | 0.6k     | Aluminum 2.3k | 2.3k      | 23.3         | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x500/35              | 34.6    | 3.4     | 0.8k    | 0.6k    | 47.3    | 2.1     | 0.6k     | Aluminum 2.6k | 2.6k      | 26.5         | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x630/35              | 38      | 3.4     | 0.8k    | 0.7k    | 59.6    | 2.1     | 0.7k     | Aluminum 3.1k | 3.1k      | 29.9         | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x800/35              | 42.3    | 3.4     | 1k      | 0.8k    | 75.6    | 2.4     | 0.8k     | Aluminum 3.8k | 3.8k      | 34.2         | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x1000/35             | 46.2    | 3.4     | 1.2k    | 0.9k    | 94      | 2.4     | 0.9k     | Aluminum 4.7k | 4.7k      | 38.1         | XLPE | PVC | +90          | +250     | -35- +90 | -2 |

### 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 0.9k | 0.9k      | 8.3          | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x70/16               | 22      | 5.5     | 0.2k    | 0.2k    | 6.6     | 2.1     | 0.5k     | Aluminum 1k   | 1k        | 9.8          | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x95/16               | 23.5    | 5.5     | 0.3k    | 0.3k    | 9       | 2.1     | 0.5k     | Aluminum 1.2k | 1.2k      | 11.3         | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x120/16              | 25      | 5.5     | 0.3k    | 0.3k    | 11.3    | 2.1     | 0.5k     | Aluminum 1.3k | 1.3k      | 12.8         | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x150/25              | 26.4    | 5.5     | 0.4k    | 0.3k    | 14.2    | 2.1     | 0.5k     | Aluminum 1.5k | 1.5k      | 14.2         | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x185/16              | 28      | 5.5     | 0.4k    | 0.4k    | 17.5    | 2.1     | 0.6k     | Aluminum 1.5k | 1.5k      | 15.8         | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x185/25              | 28      | 5.5     | 0.4k    | 0.4k    | 17.5    | 2.1     | 0.6k     | Aluminum 1.6k | 1.6k      | 15.8         | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x240/25              | 30.3    | 5.5     | 0.5k    | 0.4k    | 22.7    | 2.1     | 0.6k     | Aluminum 1.9k | 1.9k      | 18.1         | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x300/25              | 32.4    | 5.5     | 0.6k    | 0.5k    | 28.4    | 2.1     | 0.6k     | Aluminum 2.1k | 2.1k      | 20.2         | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x400/35              | 35.5    | 5.5     | 0.7k    | 0.5k    | 37.8    | 2.1     | 0.7k     | Aluminum 2.6k | 2.6k      | 23.3         | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x500/35              | 38.7    | 5.5     | 0.8k    | 0.6k    | 47.3    | 2.1     | 0.7k     | Aluminum 3k   | 3k        | 26.5         | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x630/35              | 42.1    | 5.5     | 0.9k    | 0.7k    | 59.6    | 2.4     | 0.8k     | Aluminum 3.5k | 3.5k      | 29.9         | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x800/35              | 46.4    | 5.5     | 1k      | 0.8k    | 75.6    | 2.4     | 0.8k     | Aluminum 4.2k | 4.2k      | 34.2         | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x1000/35             | 50.3    | 5.5     | 1.1k    | 0.9k    | 94.6    | 2.4     | 0.9k     | Aluminum 5.2k | 5.2k      | 38.1         | XLPE | PVC | +90          | +250     | -35- +90 | -2 |



## NA2XSY

### CROSS-SECTION DATA — 18/30 kV

Spannung: 18/30 kV

| Cores & cross-section | DI [mm] | Wi [mm] | Ibl [A] | Ibe [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 | 1.2k      | 8.3          | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x70/16               | 27      | 8       | 0.2k    | 0.2k    | 6.6     | 2.1     | 0.5k     | Aluminum | 1.3k      | 9.8          | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x95/16               | 28.5    | 8       | 0.3k    | 0.3k    | 9       | 2.1     | 0.6k     | Aluminum | 1.4k      | 11.3         | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x120/16              | 30      | 8       | 0.3k    | 0.3k    | 11.3    | 2.1     | 0.6k     | Aluminum | 1.5k      | 12.8         | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x150/25              | 31.4    | 8       | 0.4k    | 0.3k    | 14.2    | 2.1     | 0.6k     | Aluminum | 1.8k      | 14.2         | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x185/25              | 33      | 8       | 0.4k    | 0.4k    | 17.5    | 2.1     | 0.6k     | Aluminum | 1.9k      | 15.8         | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x240/25              | 35.3    | 8       | 0.5k    | 0.4k    | 22.7    | 2.1     | 0.7k     | Aluminum | 2.2k      | 18.1         | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x300/25              | 37.4    | 8       | 0.6k    | 0.5k    | 28.4    | 2.1     | 0.7k     | Aluminum | 2.4k      | 20.2         | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x400/35              | 40.5    | 8       | 0.7k    | 0.5k    | 37.8    | 2.1     | 0.7k     | Aluminum | 2.9k      | 23.3         | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x500/35              | 43.7    | 8       | 0.8k    | 0.6k    | 47.3    | 2.4     | 0.8k     | Aluminum | 3.4k      | 26.5         | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x630/35              | 47.1    | 8       | 0.9k    | 0.7k    | 59.6    | 2.4     | 0.8k     | Aluminum | 3.9k      | 29.9         | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x800/35              | 51.4    | 8       | 1k      | 0.8k    | 75.6    | 2.9     | 0.9k     | Aluminum | 4.7k      | 34.2         | XLPE | PVC | +90          | +250     | -35- +90 | -2 |
| 1x1000/35             | 55.3    | 8       | 1.1k    | 0.9k    | 94.6    | 3       | 1k       | Aluminum | 5.7k      | 38.1         | XLPE | PVC | +90          | +250     | -35- +90 | -2 |