

SCHEDULE OF GUARANTEED CHARACTERISTICS

GENERAL:

| | | | | | | |
|----------------------|-------------------|--------------------|---------------------|---------------------|--------------------|--------------------|
| Type of cable | N2XS(F)2Y 1x95/16 | N2XS(F)2Y 1x120/16 | NA2XS(F)2Y 1x150/25 | NA2XS(F)2Y 1x185/25 | N2XS(F)2Y 1x240/25 | N2XS(F)2Y 1x300/25 |
| Applicable standards | SI 1516-2 | SI 1516-2 | SI 1516-2 | SI 1516-2 | SI 1516-2 | SI 1516-2 |
| Rated voltage | 18/30 | 18/30 | 18/30 | 18/30 | 18/30 | 18/30 |

DIMENSIONAL CHARACTERISTICS:

| | | | | | | | |
|---|-----------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Cross-sectional area of conductors | mm ² | 95 | 120 | 150 | 185 | 240 | 300 |
| Material of conductor | | Aluminium (Circular, stranded) | Aluminium (Circular, stranded) | Aluminium (Circular, stranded) | Aluminium (Circular, stranded) | Aluminium (Circular, stranded) | Aluminium (Circular, stranded) |
| Approx. diameter of conductor | mm | 11.4 | 12.6 | 14.1 | 15.8 | 18.1 | 20.3 |
| Material of inner semi conducting layer (conductor screen) | | Semi-conducting XLPE | Semi-conducting XLPE | Semi-conducting XLPE | Semi-conducting XLPE | Semi-conducting XLPE | Semi-conducting XLPE |
| Approx. thickness of inner semi conducting layer | mm | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.7 |
| Material of insulation | | XLPE | XLPE | XLPE | XLPE | XLPE | XLPE |
| Nominal thickness of insulation | mm | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| Material of outer semi conducting layer (insulation screen) | | Semi-conducting XLPE | Semi-conducting XLPE | Semi-conducting XLPE | Semi-conducting XLPE | Semi-conducting XLPE | Semi-conducting XLPE |
| Approx. thickness of outer semi conducting layer | mm | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| Material of metallic screen | | Copper wires and binder copper tape | Copper wires and binder copper tape | Copper wires and binder copper tape | Copper wires and binder copper tape | Copper wires and binder copper tape | Copper wires and binder copper tape |
| Cross-sectional area of metallic screen | mm ² | 16 | 16 | 25 | 25 | 25 | 25 |
| Material of outer sheath | | PE | PE | PE | PE | PE | PE |
| Colour of outer sheath | | Black | Black | Black | Black | Black | Black |
| Minimum thickness at any point of outer sheath | mm | 1.48 | 1.56 | 1.56 | 1.56 | 1.64 | 1.72 |
| Approx. diameter of completed cable | mm | 38 | 39 | 41 | 42 | 45 | 48 |
| Approx. weight of cable | kg/km | 1215 | 1320 | 1540 | 1695 | 1930 | 2220 |

MECHANICAL CHARACTERISTICS

| | | | | | | | |
|---|----|-------|-------|-------|-------|-------|-------|
| Minimum bending radius of cable | | 15xD* | 15xD* | 15xD* | 15xD* | 15xD* | 15xD* |
| Minimum laying temperature of cable | °C | +2 | +2 | +2 | +2 | +2 | +2 |
| Pulling force (with pulling head attached to conductor) | N | 2850 | 3600 | 4500 | 5550 | 7200 | 9000 |

ELECTRICAL CHARACTERISTICS:

| | | | | | | | |
|---|--------|-------|-------|-------|-------|-------|-------|
| Max. D.C. resistance of conductor at 20°C | Ohm/km | 0.320 | 0.253 | 0.206 | 0.164 | 0.125 | 0.100 |
| Max. permissible continuous conductor temperature | °C | 90 | 90 | 90 | 90 | 90 | 90 |
| Max. permissible conductor temperature during short circuit (max 5 s) | °C | 250 | 250 | 250 | 250 | 250 | 250 |
| Short circuit current of conductor for 1 sec (Adiabatic) | kA | 8.9 | 11.3 | 14.1 | 17.4 | 22.6 | 28.2 |
| Short circuit current of copper screen for 1 sec (Non adiabatic) | kA | 3.1 | 3.1 | 4.9 | 4.9 | 4.9 | 4.9 |

* D=Overall diameter of cable (mm)

MARKING :EMBOSSED

PRYSMIAN NA2XS(F)2Y 1x95/16 18/30 KV SI 1516-2 YEAR OF MANUFACTURE - METER

Information and data contained in the chart are prepared with due diligence and long analysis, accuracy of which is guaranteed within the integrity of whole information and data. Even the lowest amendment will trigger repetition of the same procedure. Therefore, if a change is requested on data, you are requested to apply to Prysmian with such request, drawing specific attention to the planned changes. Upon which Prysmian shall approve in writing by repeating the same analysis procedure. Prysmian shall not be held liable from changes made unilaterally, without following the due procedure. No action by Prysmian shall be construed as implicit approval to such changes.

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