

PO622000019

SCHEDULE OF GUARANTEED CHARACTERISTICS

**SAP NO**

GENERAL :

- Type of cable	:	NA2XS(F)2Y 1x150/25
- Applicable standards	:	SI 1516-2
- Rated voltage	kV :	18/30

DIMENSIONAL CHARACTERISTICS:

- Cross-sectional area of conductors	mm <sup>2</sup> :	150
- Material of conductor	:	Aluminium (Circular, stranded, compacted )
- Approx.diameter of conductor	mm :	14,1
- Material of inner semi conducting layer (conductor screen)	:	Semi-conducting XLPE
- Approx.thickness of inner semi conducting layer	mm :	0,5
- Material of insulation	:	XLPE
- Nominal thickness of insulation	mm :	8,0
- Material of outer semi conducting layer (insulation screen)	:	Semi-conducting XLPE
- Approx.thickness of outer semi conducting layer	mm :	0,4
- Material of metallic screen	:	Copper wires and binder copper tape
- Cross-sectional area of metallic screen	mm <sup>2</sup> :	25
- Material of outer sheath	mm :	PE
- Colour of outer sheath	:	<b>Red + UV Resistance as per ISO 4892-2</b>
- Minimum thickness at any point of outer sheath	mm :	1,56
- Approx.diameter of completed cable	mm :	41,0
- Approx. weight of cable	kg/km :	1540

MECHANICAL CHARACTERISTICS

- Minimum bending radius of cable	:	15xD*
- Minimum laying temperature of cable	°C :	+2
- Pulling force (with pulling head attached to conductor)	N :	4500

ELECTRICAL CHARACTERISTICS :

- Max.D.C.resistance of conductor at 20°C	Ohm/km :	0,2060
- Max.permissible continuous conductor temperature	°C :	90
- Max.permissible conductor temperature during short circuit.(max 5 sec.	°C :	250
- Short circuit current of conductor for 1 sec (Adiabatic)	kA :	14,1
- Short circuit current of copper screen for 1 sec (Non adiabatic)	kA :	4,9
- Reactance at 50 Hz	Ohm/km :	0,121
- Capacitance	pF/km :	0,301
- Max.charging current at normal voltage and frequency	mA/m :	0,82
- Carrying current capacity		
Laid direct in ground (trefoil-flat spaced)	A :	281-288
Drawn into ducts (trefoil- flat touching )	A :	267-271
Laid in air (trefoil- flat touching-flat spaced)	A :	368-376-440

(air temperature 30°C -Ground temperature 20°C-Depth of laying 0,8 m-Thermal resistivity of soil 1,5 K.m/W,  
 ,Thermal resistivity of earthenware 1,5 K.m/W -Screens bonded at both ends)

\* D=Overall diameter of cable (mm)

**MARKING:EMBOSED**

**PRYSMIAN NA2XS(F)2Y 1x150/25 18/30 kV SI 1516-2** **UV YEAR OF MANUFACTURE ME**

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