PRYSMIAN

ATEKA LTD
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Industrial Area Segula
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A brand of the Prysmian Group

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	mm²	:	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	mm²	:	25
- Material of outer sheath	mm	:	PE
- Colour of outer sheath		:	**Red + UV Resistance as per ISO 4892-2**
- 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 continous 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 temparature 30°C -Ground temparature 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 -Screes bonded at both ends)

* D=Overall diameter of cable (mm)

MARKING:EMBOSSED

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