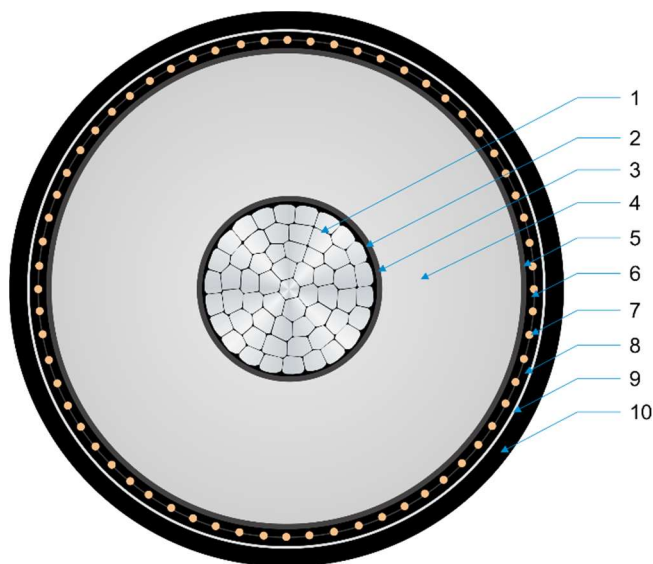


Customer: Statkraft
Project: Lister Drive
Subject: Cable Data Sheet



(not to scale)
 (subject to change)

Cable Type Designation

A2XS(FL)2YH 1x500 RM/210 160/275 kV >c-w<

Construction

1	conductor	aluminium, stranded, longitudinally watertight	500 mm ²	diameter approx.	26.4 mm
2	bedding	fabric tape, semi-conducting			
3	conductor screen	conductive XLPE-compound		thickness approx.	0.8 mm
4	insulation	XLPE		thickness approx.	22.4 mm
				diameter approx.	73.6 mm*
5	insulation screen	conductive XLPE-compound		thickness approx.	0.8 mm
6	bedding	swelling tape, semi-conducting		diameter approx.	76 mm*
7	wire screen	copper wires	210 mm ²	thickness approx.	1.5 mm
8	bedding	swelling tape, semi-conducting			
9	metallic sheath	copolymer-laminated aluminium		thickness approx.	0.2 mm
10	outer sheath	HDPE, flame retardant layer HFFR to meet IEC 60332-3-22, conductive outer layer, halogen-free, UV-resistant		thickness approx.	5 mm
	cable weight	approx. 9.5 kg/m		cable diameter approx.	95 mm**

Mechanical Data

dynamic bending radius during laying	minimum	2.4 m
professional single bend radius when installed	minimum	1.5 m
pulling force at conductor during laying	maximum	15 kN
side wall pressure during laying	maximum	10 kN/m
laying temperature of cable during installation	minimum	-5 °C

Electrical Data

operating voltage U ₀ / U (U _m)		160 / 275 (300) kV
DC-resistance of conductor at 20 °C	maximum	0.0605 Ω/km
capacitance	nominal	0.143 μF/km
charging current per phase	nominal	7.2 A/km
Inductance trefoil / flat (laying conditions per email 06/04/2021)	nominal	0.67 / 0.72 mH/km
electrical stress at conductor screen	nominal	11.9 kV/mm
electrical stress at insulation screen	nominal	4.7 kV/mm

*: subject to manufacturing tolerance of +2 / -1 mm

***: subject to manufacturing tolerance of +4 / -4 mm