

# Medium voltage cable (N)A2XS(F)2Y 3-times stranded



**Application:** For installation in the ground, in water, outdoors, indoors and in cable ducts for power stations, industrial applications and distribution networks. The high mechanical durability of the PE-sheath permits strong mechanical stress during installation or operation. This cable is also suitable for unfavourable operating conditions, specifically where there is a need to avoid water penetration lengthwise following mechanical damage.

## Construction and technical data:

<b>Standard:</b>	VDE 0276-620 (with ref. to)
<b>Conductor material:</b>	aluminium
<b>Conductor construction:</b>	Class 2 = stranded
<b>Insulation:</b>	XLPE DIX8
<b>Electrical field control:</b>	inner and outer semiconducting layer (triple extrusion)
<b>Screen:</b>	Copper wires + counter helix
<b>Sheathing material:</b>	polyethylene DMP2
<b>Longitudinally watertight:</b>	yes
<b>Colour of outer sheath:</b>	red
<b>Flame-retardant:</b>	none
<b>UV-resistant:</b>	yes
<b>For outdoor use:</b>	yes
<b>Max. temperature at conductor, °C:</b>	90 °C
<b>Permitted outer cable temperature, fixed, °C:</b>	70 °C
<b>Permitted outer cable temperature, moved, °C:</b>	-20 - +70 °C
<b>Bending radius, fixed installation:</b>	15 x Ø
<b>Meter mark:</b>	yes
<b>Partial discharge:</b>	2 pC



*The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.*

(N)A2XS(F)2Y 6/10 kV 3-times stranded

**Nominal voltage U<sub>o</sub>:** 6 kV  
**Nominal voltage U:** 10 kV  
**Maximum permitted operating voltage in three-phase systems:** 12 kV  
**Test voltage:** 21 kV

part no.	part name		DI [mm]	RI [Ohm/km]	Wi [mm]	Ibl [A]	Ibe [A]	Ik [kA]	Wm [mm]	Rbv [mm]	Ø [mm]	Fzv [N]	Al	Cu	G [kg]
015509	3X1X185/25	RMv	16.8	0.164	3.4	418	357	17.4	2.1	1055	70.3	16650	1610	848	3720

DI	diameter conductor
RI	Conductor resistance
Wi	Insulation wall thickness
Ibl	Ampacity in air (30 °C)
Ibe	Ampacity in ground (20 °C)
Ik	Short-circuit current (1 s)
Wm	Wall thickness of sheath
Rbv	Bending radius, fixed installation
Ø	outer diameter approx.
Fzv	Tensile strength (during installation)
Al	Aluminium weight (GER)
Cu	Copper weight (GER)
G	net weight per 1000