

Aluminium watertight (tape and yarn) compacted conductor, extruded with semiconducting screen, XLPE insulation and semiconducting screen in triple-extrusion process, water-swellable semiconducting tape applied helically, laminated aluminium foil bonded tightly to sheath providing radial watertightness, cable core covered with PE outer sheath, three cores laid-up. Cable is intended for use by electric utilities and industry for medium voltage distribution. May also be installed indoors, also in wet locations, and outdoors for fixed installations.



Characteristic	Unit	Value
Standard:		HD 620 S2:2010-10F
No of phase conductors × conductor cross sectional area	pcs.×mm ²	3×150
Phase conductor material		Al (watertight)
Phase conductor type		RM (round, stranded and compacted)
Number and diameter of wires in phase conductor	No/mm	36×2,4
Phase conductor diameter	mm	14,1
Protection from water penetration		Yes
Type of protection from water penetration		Water-swellable tape and yarn
Nominal thickness of semi-conductive conductor screen	mm	0,6
Insulation material		XLPE
Nominal thickness of insulation	mm	8
Insulation UV resistance		No
Nominal thickness of semi-conductive insulation screen	mm	0,45
Longitudinal water penetration barrier		Yes
Material of separating layer		Semi-conducting water-swellable tape
Nominal thickness of separating layer	mm	0,35
Metallic screen		Laminated aluminium foil attached tightly to the outer sheath providing radial watertightness
Aluminium foil thickness	mm	0,2
Outer sheath material		Black PE
Nominal outer sheath thickness	mm	2,9
Outer sheath UV resistance		Yes
Diameter over sheath	mm	39
Assembly of cores		Three cores laid-up.
Overall diameter of cable (calculated)	mm	83,9 (over laid-up cores)
Min. permissible bending radius during installation	mm	1007
Lowest laying temperature	°C	-20
Rated voltage	kV	18/30
Highest continuous operating voltage	kV	36
Impulse withstand voltage	kV	170
Phase conductor DC resistance per km at 20°C	Ohm/km	0,206
Phase conductor AC resistance of conductor 90°C	Ohm/km	0,265
Cable inductance	mH/km	0,392
Cable capacitance	μF/km	0,18
Maximum permissible duration of short circuit	s	5
Maximum permissible continuous conductor temperature	°C	90
Maximum permissible conductor temperature during the short circuit	°C	250
Delivery length per drum	m	380
Weight of conductors per km	Kg	1158,25
Weight of cable per km	kg	4319
Gross weight of full cable drum	kg	2341
Diameter of cable drum	mm	2454
Width of cable drum	mm	1150
Manufacturers name		Energocomplekt
Country of Origin		Belarus