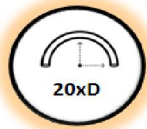
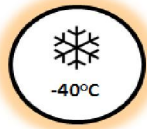
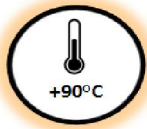
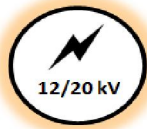


COAL2X

Conductoare din otel-aluminiu, izolate in polietilena reticulata, utilizate pentru linii electrice aeriene de medie tensiune 12/20 KV



XLPE- insulated steel-aluminum conductors for overhead 12/20 kV power lines



Standard de fabricatie: ST 152:2010, SFS 5791:94

Tensiune nominala U_0/U : 12/20 kV

Tensiunea de incercare in apa: 4 kV ca or 9.6 kV cc, 50Hz, 5 min.

Tensiunea de incercare in aer: 24 kV ca, 5 min., 50 Hz

Tensiunea de incercare in c.a in apa: ≥ 24 kV AC, 50 Hz

Curentul de scurgere: max 1 mA

Rezistenta de izolatie la 90°C: $\min. 10^{12} \Omega \cdot \text{cm}$

Temperatura minima de instalare: -20°C

Temperatura max de lucru: +90°C

Temperatura max in scurt- circuit (max. 5sec): +250 °C

Domeniul de utilizare

Conductoarele se utilizeaza pentru linii electrice aeriene de medie tensiune 12/20 kV pentru a evita avariile si deranjamentele produse de vanturi puternice ,depuneri masive de chiciura, zapada si solicitari climatice moderate (variatii de ultraviolete solare)

Conductor

Otel-aluminiu, conf. SR CEI 61089:97

Izolatia

Polietilena reticulata (XLPE), tip DIX 5.

Marcaj

SC ELECTROPLAST SA, simbol conductor, luna/an de fabricatie, marcaj de metraj.

Raza minima de curbura la instalare

20 x diametrul cablului

Forta maxima de tractiune la pozare

30 N/mm²

- **Culoarea izolatiei: neagra (continut de negru de fum 2-3%)**

Manufacturing standard: ST 152:2010, SFS 5791:94

Rated voltage U_0/U : 12/20 kV

Water testing voltage: 4 kV AC or 9.6 kV DC, 50Hz, 5 min.

Air testing voltage: 24 kV AC, 5 min., 50 Hz

Water testing current: ≥ 24 kV AC, 50 Hz

Leak current: max 1 mA

Dielectric resistance at +90°C: $\min. 10^{12} \Omega \cdot \text{cm}$

Minimum installation temperature: -20°C

Maximum operation temperature: +90°C

Maximum short-circuit temperature (max. 5sec): +250°C

Area of application:

Power conveyance to 12/20 kV overhead lines. The use of these conductors helps to avoid damages and malfunctions caused by strong winds, massive frost build-up, snow and moderate climatic stress (solar UV variations)

Conductor

Aluminum conductor with steel core, acc. to SR CEI 61089:97

Insulation

Crosslinked polyethylene (XLPE), DIX 5 type.

Marking

SC ELECTROPLAST SA, conductor symbol, month/year of manufacture, length marking (meter by meter).

Minimum bending radius during installation:

20 x cable diameter

Max. tensile stress during installation:

30 N/mm²

- **Insulation color: black (carbon black content 2-3%)**

COAL2X



Conductoare din otel-aluminiu, izolate in polietinena reticulata, utilizate pentru linii electrice aeriene de medie tensiune 12/20 KV

XLPE- insulated steel-aluminum conductors for overhead 12/20 kV power lines

Tipodimensiune cablu	Constructie cond de otel-zincat	Nr de sarme de Al din cond x diam	Forta de rupere conductor	Grosime radiala nominala izolatie	Diametru exterior inf min/max	Rezistenta electrica max, la 20°C	Intensitate curent	Masa inf
<i>Cable size</i>	<i>Zinc-plated conductor structure</i>	<i>No. of Al wires in cond. x diam.</i>	<i>Breaking strength of conductor</i>	<i>Rated radial thickness of insulation</i>	<i>Auter diameter inf min/max</i>	<i>Max. resistance at 20°C</i>	<i>Current intensity</i>	<i>Mass inf</i>
			KN	mm	mm	Ω/km	A	kg/km
35/6	1x2.7	6x2.7	12.4	2.5	11.8/13.1	0.832	200	214
50/8	1x3.2	6x3.2	16.8	2.5	13.1/14.6	0.595	250	280
70/12	7x1.47	26x1.85	25.7	2.5	15.0/16.7	0.422	300	380
95/15	7x1.65	26x2.1	33.7	2.5	16.4/18.2	0.321	370	480
120/21	7x1.95	26x2.45	45.9	2.5	18.6/20.7	0.235	420	630
150/25	7x2.13	26x2.7	53.7	2.5	19.9/22.1	0.194	485	740
*185/32	7x2.4	26x3.0	67.3	2.5	24.2/27.8	0.157	535	926
*240/40	7x2.7	26x3.4	84.6	2.5	26.7/30.7	0.1222	645	1154

*Constructii adaptate dupa SFS 5791:94

*Constructions adapted to SFS 5791:94