ARE4*E4*X

Cabluri aeriene torsadate cu conductoare de aluminiu si aliaj de aluminiu, izolate in polietilena reticulata 0.6/1 kV

Aerial Bundled Cables with aluminium and aluminium alloy conductors with XLPE insulation 0.6/1 kV

CARACTERISTICI

Standarde de referinta: GSCC009, SR CEI 60502-1; SR HD 626 S1
Tensiune nominala U0/U(Um): 0.6/1(1.2) kV
Tensiunea de incercare: 4 kV, 50 Hz, timp de 5 minute.
Temp. maxima conductorului in functionare normala: +90°C
Temp. maxima a conductorului in scurt-circuit(max.5 s): +250°C
Temperatura mediului ambient:
- la pozare: -10°C....+40°C
- in exploatare: -40°C....+90°C
* Cablurile sunt cu rezistenta la UV
* Rezistent la intemperii
* Rezistenta la propagarea flacarii
Raza minima de curbura la instalare:10 x diametru cablului
Modalitate de ambalare: Colaci de min.50 m lungime sau tamburi

CARACTERISTICS

Reference standards: GSCC009, SR CEI 60502-1; SR HD 626 S1
Rated voltage: U0/U(Um): 0.6/1(1.2) kV
Test voltage: 4 kV, 50 Hz, for 5 minutes.
Maximum conductor temperature in normal operation: +90°C
Max. conductor temperature in short-circuit (max 5 s):+250°C
Ambiental temperature:
- during instalation: -10°C....+40°C
- in use: -40°C....+90°C
* UV resistant cables
* Weather resistant
* Flame retardant
Min. bending radius at installation: 10 x cable diameter
Packaging: Coils of min. 50 m length or drums

DOMENIU DE UTILIZARE

Cablurile sunt destinate pentru realizarea bransamentelor electrice aeriene. Cablurile pot fi instalate in aer liber, pe suporti, in tevi si conducte, pe peretii cladirilor.

UTILIZATION

The cables are intended for making aerial electrical connections. They can be installed outdoors, on supports, in pipes and tubes, on the walls of buildings.

CONSTRUCTIE

Conductor de aluminiu: Conductor de faza multifilar din aluminiu (RM) si/sau conductorul neutru aliaj de aluminiu, multifilar (RM) conf. GSC009-7.4.1
Izolatia: Polietilena reticulata (XLPE) negru(pt neutru gri)
Manta: Polietilena reticulata (XLPE) gri
Infuniere: Conductoarele izolate sunt infuniate conform GSCC009-7.5
Marcare si inscriptionare: Marcare si identificarea se face conform GSC009-7.7.2
Exemple marcaj:
a.Cablu Tip III 2x16:
Faza: ENEL ARE4*E4*X-0,6/1 kV 16 CPR PGA ELECTRIC B 01 An Luna Metraj FAZA FAZA
Neutru: ENEL ARE4*E4*X-0,6/1 kV 16 CPR PGA ELECTRIC B 01 An Luna

b.Cablu Tip III 4x16:
Faza 1: ENEL ARE4*E4*X-0,6/1 kV 16 CPR PGA ELECTRIC B 01 An Luna Metraj FAZA 1 FAZA 1
Faza 2 si 3: ENEL ARE4*E4*X-0,6/1 kV 16 CPR PGA ELECTRIC B 01 An Luna FAZA 2,3 FAZA 2,3
Neutru: ENEL ARE4*E4*X-0,6/1 kV 16 CPR PGA ELECTRIC B 01 An Luna

c. Cablu tip IV
Faza 1, 2 sau 3: ENEL ARE4*E4*X*-0,6/1 kV 35 CPR PGA ELECTRIC B 01 An Luna FAZA 1,2 sau 3 FAZA 1,2 sau 3
Neutru: ENEL ARE4*-0,6/1 kV 54,6 CPR PGA ELECTRIC B 01 AN Luna Metraj

CONSTRUCTION

Aluminum conductor: Phase conductors from aluminum multiwire (RM)according SR EN 60228 or/and neutral conductors from aluminum alloy multiwire (RM) according. GSCC009-7.4.1
Insulation:Cross linked polyethylene (XLPE) black/grey
Sheath:Cross linked polyethylene (XLPE) grey
Laying up: Insulated conductors are twisted according GSCC009-7.5
Markings and inscriptions: Marking and identification according to GSC009-7.7.2
Marking Exemples:
a.Cable Type III 2x16:
Phase: ENEL ARE4*E4*X-0,6/1 kV 16 CPR PGA ELECTRIC B 01 Year Month Length FASE FASE
Neutral: ENEL ARE4*E4*X-0,6/1 kV 16 CPR PGA ELECTRIC B 01 Year Month
b.Cable Type III 4x16:
Phase 1: ENEL ARE4*E4*X-0,6/1 kV 16 CPR PGA ELECTRIC B 01 Year Month FASE 1 FASE 1
Phase 2 si 3: ENEL ARE4*E4*X-0,6/1 kV 16 CPR PGA ELECTRIC B 01 Year Month FASE 2,3 FASE 2,3
Neutral: ENEL ARE4*E4*X-0,6/1 kV 16 CPR PGA ELECTRIC B 01 Year Month
c. Cable type IV
Phase 1, 2 sau 3: ENEL ARE4*E4*X*-0,6/1 kV 35 CPR PGA ELECTRIC B 01 Year Month FASE 1,2 or 3 FASE 1,2 or 3
Neutral: ENEL ARE4*-0,6/1 kV 54,6 CPR PGA ELECTRIC B 01 Year Month Length

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Caracteristici conductori/Conductors caracteristics

Sectiune conductor/ Conductor cross section	Rezisitenta electrica, 20°C/Electrical resistance,20°C (Ohm/km)	Nr. minim de sarme/ Minimum nr. of wires in condcutor	Diametru conductor/ Conductordiameter (mm)	Grosime nominala izolatie/Nominal insulation thickness TYPE III and IV (mm)	Grosime nominala manta/Sheath nominal Thickness TYPE III and IV (mm)
Aluminium Conductors					
16 RM	1.91	7	4.9	1.3	0.2
25 RM	1.2	7	6.4	1.3	0.2
35 RM	0.868	7	7.2	1.6	0.2
50 RM	0.641	7	8.3	1.6	0.2
70 RM	0.443	12	9.7	1.6	0.2
95 RM	0.320	15	11.7	1.8	0.2
150 RM	0.206	15	14.2	1.8	0.2
Aluminium alloy Conductors					
54,6 RM	0.63	7	9.5	1.6	0.2

Caracteristici cabluri/Cables caracteristics

Cod PGA/ PGA Code	Numar de faze x Sectiunea/ Number of phases x Cross section (mm2)	Masa inf./ Mass inf. (kg/km)	Diametru exterior/ External diameter (mm)	Forta de rupere/ Breaking load (daN)
Cabluri cu conductori de AL tip III/Cables with AL Conductors type III				
PGA013858	2x16 RM	140	15.5	550
PGA013864	4x16 RM	280	18.5	1100
Cod PGA/ PGA Code	**Numar de faze x Sectiunea/ Number of phases x Cross section (mm2)**	**Masa inf./ Mass inf. (kg/km)**	**Diametru exterior/ External diameter (mm)**	**Forta de rupere conductor neutru/ Breaking load neutral conductor (daN)**
Cabluri cu conductori de AL si aliaj de Al tip IV/Cables with AL and Al alloy Conductors type IV				
PGA013898	3x35RM+54,6 RM	650	35	1600
PGA013899	3x70RM+54,6 RM	950	38	1600