ARE4EX

Cabluri ingropate cu conductori de aluminiu, Izolatie din XLPE si manta din PO 0.6.1 kV

Underground Cables with aluminium conductors, XLPE insulation and PO sheath 0.6/1 kV

CARACTERISTICI

Standarde de referinta: GSC002, SR CEI 60502-1
Tensiune nominala U0/U(Um): 0.6/1(1.2) kV
Tensiunea de incercare: 3.5kV, 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: -5°C....+50°C
- in exploatare: -40°C....+90°C
* Cablurile sunt cu rezistenta la UV
* Clasa de reactie la foc: Eca
Raza minima de curbura la instalare: 12 x diametru cablului
Modalitate de ambalare: Colaci de min.50 m lungime sau tamburi

CARACTERISTICS

Reference standards: GSC002, SR CEI 60502-1
Rated voltage: U0/U(Um): 0.6/1(1.2) kV
Test voltage: 3.5 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: -5°C....+50°C
- in use: -40°C....+90°C
* UV resistant cables
* Reaction to fire class:Eca
Min. bending radius at installation: 12 x cable diameter
Packaging: Coils of min. 50 m length or drums

DOMENIU DE UTILIZARE

Cablurile sunt destinate pentru utilizarea energiei electrice in instalatii electrice fixe.

UTILIZATION

The cables are intended for the use of electricity in fixed electrical installations.

CONSTRUCTIE

Conductor de aluminiu: Conductor din aluminiu multifilar clasa 2 (RM) conform SR EN 60228
Izolatia: Polietilena reticulata (XLPE) natural/negru
Manta exterioara: Polyolefina/PVC (PO/PVC) negru/gri
Infuniere:Conductoarele izolate sunt infuniate conform GSC002-5.4
Marcare si inscriptionare:Marcare si identificarea se face conform GSC002-5.6.2
Exemple marcaj:
a.Cablu Tip I:
e-distributie ARE4E-0,6/1 kV Sectiune Eca PGA ELECTRIC B 01 AN LUNA METRAJ
b.Cablu Tip II:
Faza 1: e-distributie ARE4EX-0,6/1 kV SECTIUNE Eca PGA ELECTRIC B 01 AN LUNA METRAJ FAZA 1...FAZA 1
Faza 2,3: e-distributie ARE4EX-0,6/1 kV SECTIUNE Eca PGA ELECTRIC B 01 AN LUNA FAZA 2 sau 3...FAZA 2 sau 3
Neutru: e-distributie ARE4EX-0,6/1 kV SECTIUNE Eca PGA ELECTRIC B 01 AN LUNA

CONSTRUCTION

Aluminum conductor: Aluminum conductors multiwire class2 (RM) according SR EN 60228
Insulation: Cross linked polyethylene (XLPE) natural/black
Outher Sheath: Polyolefin/PVC (PO/PVC) black/grey.
Laying up: Insulated conductors are twisted according GSC002-5.4

Markings and inscriptions: Marking and identification according to GSC002-5.6.2
Marking Exemples:
a.Cable Type I:
e-distributie ARE4E-0,6/1 kV Cross section Eca PGA ELECTRIC B 01 YEAR MONTH LENGTH
b.Cable Type II:
Phase 1: e-distributie ARE4EX-0,6/1 Kv CROSS SECTION Eca PGA ELECTRIC B 01 YEAR MONTH LENGTH FASE 1...FASE 1
Phase 2 si 3: e-distributie ARE4EX-0,6/1 kV CROSS SECTION Eca PGA ELECTRIC B 01 YEAR MONTH FASE 2 or 3...FASE 2 or 3
Neutral: e-distributie ARE4EX-0,6/1 kV CROSS SECTION Eca PGA ELECTRIC B 01 YEAR MONTH

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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	6	4.9	0.7	1.3
25 RM	1.2	6	6.4	0.9	1.3
35 RM	0.868	6	7.2	0.9	1.3
50 RM	0.641	6	8.3	1	1.3
70 RM	0.443	12	9.7	1.1	1.4
95 RM	0.320	15	11.7	1.1	1.4
150 RM	0.206	15	14.2	1.4	1.4
240 RM	0,125	30	18.2	1.7	1.5

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)
Cabluri tip II/Cables type II			
PGA013901	3x95 RM + 1x50 RM	1.500	41
PGA013994	3x150 RM+1x95 RM	2.190	48
PGA013900	3x240 RM+1x150 RM	3.340	60