ARE4*CR/OCR

Cabluri concentrice cu conductori de Al, Izolatie din XLPE, ecran de Cu si manta din PVC 0.6.1 kV

Concentric Cables with Al conductors, XLPE insulation, Cu screen and PVC sheath 0.6/1 kV

CARACTERISTICI

Standarde de referinta: DC 4126 RO, SR CEI 60502-1
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: -5°C....+50°C
- in exploatare: -40°C....+90°C
*Clasa de reactia la foc: CPR-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: DC 4126 RO, SR CEI 60502-1
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: -5°C....+50°C
- in use: -40°C....+90°C
*Fire class reaction: CPR-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 realizarea bransamentelor electrice, folosite in industrie, la tablouri de distributie, centrale electrice. În general, acolo unde este necesară o protecție electrică și mecanică sporită, cablurile pot fi instalate în aer liber, subteran, în apă, în interior sau în tuburi, conducte de cabluri. Conductorul concentric de cupru poate fi utilizat ca nul sau inpamantare.

UTILIZATION

The cables are intended to be used for in industry, on the distribution panel, etc. Usually where a high electrical and mechanical protection is nedded. The cables can be installed in air, underground in water or in tubes. The Cu concentric conductor can be used as neutral one or as an earth discharge.

CONSTRUCTIE

Conductor de aluminiu:Conductor din aluminiu multifilar clasa 2 (RM) conform SR EN 60228
Izolatia: Polietilena reticulata (XLPE)
Infuniere:Conductoarele izolate sunt infuniate conform DC 4126 RO-7
Manta interioara: SDR/PVC
Ecan: Fire si benzi din Cupru applicate conform DC 4126 RO-7
Manta exterioara: PVC gri
Marcare si inscriptionare:
Marcare si identificarea se face conform DC 4126 RO-9

Exemple marcaj:
a.Cablu Tip I:
e-distributie ARE4*CR-0,6/1 kV 1x25+16C PGA ELECTRIC B 01 AN LUNA CPR CLASA - METRAJ
b.Cablu Tip III:
e-distributie ARE4*OCR-0,6/1 kV 3x25+16C PGA ELECTRIC B 01 AN LUNA CPR CLASA - METRAJ

CONSTRUCTION

Aluminum conductor:Aluminum conductors multiwire class2 (RM)according SR EN 60228
Insulation:Cross linked polyethylene (XLPE)
Laying up:Insulated conductors are twisted according DC 4126 RO-7
Inner Sheath: SDR/PVC
Sceen: Copper wire and Copper tapes applied according DC 4126 RO-7
Outher Sheath: PVC grey
Markings and inscriptions:Marking and identification according to DC 4126 RO-9
Marking Exemples:
a.Cable Type I:
e-distributie ARE4*CR-0,6/1 kV 1x25+16C PGA ELECTRIC B 01 YEAR MONTH CPR CLASS - LENGTH
b.Cable Type III:
-distributie ARE4*OCR-0,6/1 kV 3x25+16C PGA ELECTRIC B 01 YEAR MONTH CPR CLASS - 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	6	4.9	1.2	0.7
25 RM	1.2	6	6.4	1.2	0.9
35 RM	0.868	6	7.2	-	0.9
50 RM	0.641	6	8.3	-	1
95 RM	0.320	15	11.7	-	1.1
150 RM	0.206	15	14.2	-	1.4
240 RM	0,125	30	18.2	-	1.7

Caracteristici conductor concentric/Concentric neutral conductors caracteristics

Sectiune conductor/ Conductor Cross section	Numarul minim de conductor din cupru/Minimum number of Copper wires (n)	Diametru minim fir Cu/ Minimum diameter of Cu wire (mm)	Rezisitenta electrica,20°C/ Electrical resistance,20°C (Ohm/km)
Cabluri tip II/Cables type II			
16 RM	18	0.7	1.15
25 RM	20	-	0.727
35 RM	30	-	0.524
50 RM	35	-	0.387
95 RM	45	-	0.193

Caracteristici cabluri/Cables caracteristics

Cod PGA/ PGA Code	Numar de faze x Sectiunea/ Number of phases x Cross section (mm2)	Grosime nominalamanta/ Nominal Outher Sheath thickness(mm)	Masa informativa/ Mass informative (kg/km)	Diametru exterior/ External diameter (mm)
Cabluri tip I/Cables type I				
PGA021913	1x25RM + 16C	1.6	320	14
Cabluri tip III/Cables type III				
PGA021929	3x25RM + 16C	2	700	26
PGA021930	3x50RM + 25C	2	930	30