ARE4*OCR

APPLICATION

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

CHARACTERISTICS

Reference standard
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
In short-circuit (max 5 s): +250°C

Ambiental temperature
During installation: -5°C....+50°C
In use: -40°C....+90°C
*Fire class reaction: CPR-Eca

Minimum bending radius at installation
12 x cable diameter

Packaging
Wooden drums

CONSTRUCTION

Aluminum conductor
Aluminum conductors multiwire class 2 (RM) according SR EN 60228

Insulation
Cross linked polyethylene (XLPE)

Outer Sheath
PVC grey

Inner Sheath
SDR/PVC

Screen
Copper wire and Copper tapes applied according DC 4126 RO-7

Laying up
Insulated conductors are twisted according DC 4126 RO-7

Markings and inscriptions
Marking and identification according to DC 4126 RO-9

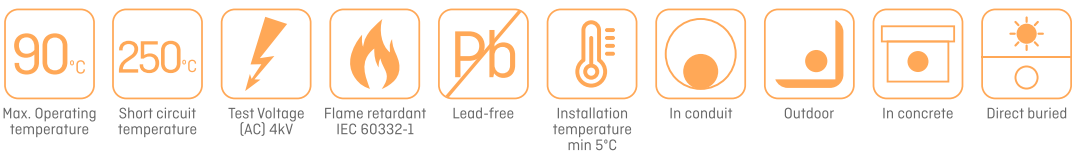
Marking Exemples:
Cable Type I
e-distributie ARE4*CR-0,6/1 kV 1x25+16C PGA ELECTRIC B 01 YEAR MONTH CPR CLASS - LENGTH
Cable Type II
e-distributie ARE4*OCR-0,6/1 kV 3x25+16C PGA ELECTRIC B 01 YEAR MONTH CPR CLASS - LENGTH

UTILISATION

The cables are intended to be used for in industry, on the distribution panel, etc. Usually where a high electrical and mechanical protection is needed. 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.

CONDUCTORS CHARACTERISTICS

CONDUCTOR CROSS SECTION	ELECTRICAL RESISTANCE, 20°C (Ohm/km)	MINIMUM NUMBER OF WIRES IN CONDUCTOR	CONDUCTOR DIAMETER (mm)	NOMINAL INSULATION THICKNESS TYPE I AND II (mm)	SEATH NOMINAL THICKNESS TYPE I AND II (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



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CONCENTRIC NEUTRAL CONDUCTORS CHARACTERISTICS

CONDUCTOR CROSS SECTION	MINIMUM NUMBER OF COPPER WIRES (n)	MINIMUM DIAMETER OF CU WIRE (mm)	ELECTRICAL RESISTANCE,20°C (Ohm/km)
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

CABLES CHARACTERISTICS

PGA CODE	NUMBER OF PHASES X CROSS SECTION (mm^2)	NOMINAL OUTER SHEATH THICKNESS (mm)	MASS INFORMATIVE (kg/km)	EXTERNAL DIAMETER (mm)
Cables type I				
PGA021913	1x25RM + 16C	1.6	320	14
Cables type III				
PGA021929	3x25RM + 16C	2	700	26
PGA021930	3x50RM + 25C	2	930	30

ARE4*OCR PGA ELECTRIC

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