# ARE4*EX

## APPLICATION

Underground Cables with aluminum conductors, XLPE insulation and PVC sheath 0.6/1 kV

## CHARACTERISTICS

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

**Ambiental temperature**
During installation: -5°C....+50°C
In use: -40°C....+90°C
* UV resistant cables
* Reaction to fire class: 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) natural

**Outer Sheath**
Polyolefin (PO)

**Laying up**
Insulated conductors are twisted according GSC002-5.4

**Markings and inscriptions**
Marking and identification according to GSC002-5.6.2

**Marking Exemples:**
**Cable Type I**
e-distributie ARE4E-0,6/1 kV Cross section Eca PGA ELECTRIC B 01 YEAR MONTH LENGTH
**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

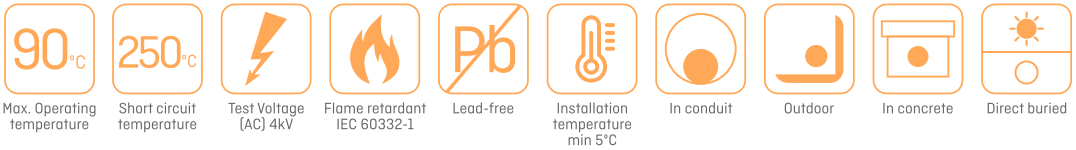
## UTILISATION

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

ARE4*EX PGA ELECTRIC

## 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 | 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 |




Max. Operating temperature | Short circuit temperature | Test Voltage (AC) 4kV | Flame retardant IEC 60332-1 | Lead-free | Installation temperature min 5°C | In conduit | Outdoor | In concrete | Direct buried



MADE IN ROMANIA

## CABLES CHARACTERISTICS

| PGA CODE | NUMBER OF PHASES X CROSS SECTION (mm²) | MASS INF. (kg/km) | EXTERNAL DIAMETER (mm) |
|---|---|---|---|
| Cables type II | | | |
| PGA013901 | 3x95 RM + 1x50 RM | 1.500 | 41 |
| PGA013994 | 3x150 RM+1x95 RM | 2.190 | 48 |
| PGA041570 | 3x240 RM+1x150 RM | 3.340 | 60 |



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