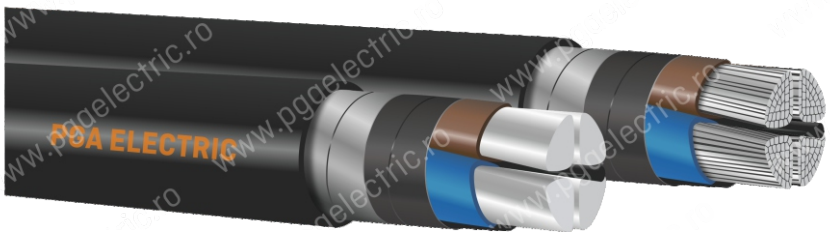
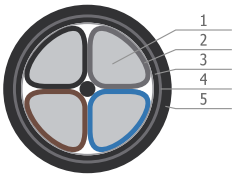
AC2XABY





AC2XABY

Armored power cable with aluminum conductors, XLPE insulation and PVC sheath

CHARACTERISTICS

Reference standard
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....+70°C
* UV resistant cables
* Flame retardant; test according to SR CEI 60332-1-2

Minimum bending radius at installation
12 x cable diameter for multi cores
15 x cable diameter for single core

Maximum tensile strain at installation
30 N/mm2

Packaging
Wooden drums

UTILISATION

The cables are designed for the energy transport in fix installations. They can be used only in environments where the outer sheath is not attacked by corrosive agents like: acetone or cyclohexanone. The cables can be installed in open or close spaces, in the ground, in channels or in concrete.

CONSTRUCTION

Aluminum conductor (1)
Solid conductor (RU), concentrically stranded conductor (RM), multifilar sector-shaped conductor (SM) or unifilar sector-shaped conductor (SU), class 1 or 2 acc. to SR EN 60228

Insulation (2)
Crosslinked polyethylene (XLPE)

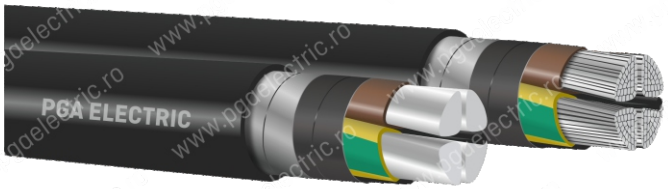
Inner coverings (3)
Non-metallic strips applied helically

Armouring (4)
Steel tape strips applied helically

Outer Sheath (5)
PVC type 1, black

Marking on the Outer sheath
Ex: "PGA AC2XABY 3x240 SM+120RM 0.6/1kV (year) (length)"

Color coding
1 conductor: Black or Yellow-Green
2 conductors: Brown Blue
Yellow-Green Black for sect>10 mm²
3 conductors: Black Grey Brown
Yellow-Green Blue Brown
4 conductors: Black Grey Brown Blue
Yellow-Green Brown Black Grey
5 conductors: Black Grey Brown Blue
Yellow-Green Blue Brown Black Grey



90°C Max. Operating temperature
250°C Short circuit temperature
Test Voltage (AC) 4kV
Flame retardant IEC 60332-1
Pb Lead-free
Installation temperature min 5°C
In conduit
Outdoor
In concrete
Direct buried

MADE IN ROMANIA

DIMENSIONAL INFORMATION

PGA CODE	NUMBER OF PHASES X CROSS SECTION (mm²)	NOMINAL INSULATION THICKNESS (mm)	NOMINAL THICKNESS (mm)	MASS INF. (kg/km)	EXTERNAL DIAMETER (mm)	MINIMUM BENDING RADIUS (mm)
1 x conductor						
PGA029757	1x95 RM	1.1	1.8	569	19.3	232
PGA034493	1x120 RM	1.2	1.8	682	21.4	257
PGA029756	1x150 RM	1.4	1.8	787	22.7	272
PGA028870	1x185 RM	1.6	1.8	941	24.9	299
PGA028869	1x240 RM	1.7	1.9	1.166	27.8	333
PGA021428	1x300 RM	1.8	1.9	1.379	29.8	357
2 x conductors						
PGA024544	2x16 RU	0.7	1.8	355	17.6	264
PGA000490	2x25 RU	0.9	1.8	475	20.6	309
3 x conductors						
PGA000494	3x16 RU	0.7	1.8	425	18.5	277
PGA021486	3x25 RU	0.9	1.8	577	21.7	326
PGA032018	3x240/120°SU	1.7	2.4	3.490	45.91920	689
4 x conductors						
PGA000502	4x16 RU	0.7	1.8	505	20.00	300
PGA000503	4x25 RU	0.9	1.8	697	23.62	354
PGA000505	4x35/90°SU	0.9	1.8	799	23.71	356
PGA019469	4x50/90°SU	1	1.8	990	26.35	395
PGA025261	4x70/90°SU	1.1	1.9	1.337	31.12	467
PGA034265	4x95/90°SM	1.1	2	2.178	37.00	555
PGA019470	4x95/90°SU	1.1	2.1	1.701	34.07	511
PGA034259	4x120/90°SM	1.2	2.3	2.597	40.73	611
PGA027316	4x120/90°SU	1.2	2.2	2.504	38.87	583
PGA019471	4x150/90°SU	1.4	2.3	2.921	42.34	635
PGA033158	4x185/90°SM	1.6	2.5	3.715	49.21	738
PGA024830	4x185/90°SU	1.6	2.4	3.554	46.50	697
PGA034285	4x240/90°SM	1.7	2.7	4.634	54.87	823
PGA028322	4x240/90°SU	1.7	2.6	4.412	51.64	775
5 x conductors						
PGA000506	5x16 RU	0.7	1.8	610	21.7	325
PGA000507	5x25 RU	0.9	1.8	843	25.7	386
PGA022834	5x35 RU	0.9	1.9	1.035	28.3	424
PGA030119	5x50 RU	1	2	1.311	31.9	478
PGA040528	5x70 RU	1	2	1.364	32.5	590
PGA035621	5x95 RU	1.1	2.3	2.698	42.7	640
3 x conductors + 1 x conductor						
PGA000497	3x25 RU+16 RU	0.9/0.7	1.8	668	23.6	354
PGA000498	3x35/90°SU+16RU	0.9/0.7	1.8	744	23.7	356
PGA000499	3x50/90°SU+25RU	1/0.9	1.8	927	26.3	395
PGA000500	3x70/90°SU+35RU	1.1/0.9	1.9	1.241	31.1	467
PGA034272	3x95/90°SM+50RU	1.1/1	2.1	2.039	37.0	555
PGA000501	3x95/90°SU+50RU	1.1/1	2	1.569	34.1	511
PGA034262	3x120/90°SM+70RU	1.2/1.1	2.3	2.437	40.7	611
PGA000492	3x120/90°SU+70RU	1.2/1.1	2.2	2.360	38.9	583
PGA017666	3x150/90°SM+70RM	1.4/1.1	2.4	2.845	44.8	671

MADE IN ROMANIA

DIMENSIONAL INFORMATION

PGA CODE	NUMBER OF PHASES X CROSS SECTION (mm²)	NOMINAL INSULATION THICKNESS (mm)	NOMINAL THICKNESS (mm)	MASS INF. (kg/km)	EXTERNAL DIAMETER (mm)	MINIMUM BENDING RADIUS (mm)
3 x conductors + 1 x conductor						
PGA000493	3x150/90°SU+70RU	1.4/1.1	2.3	2.694	42.3	635
PGA034249	3x185/90°SM+95RM	1.6/1.1	2.5	3.432	49.2	738
PGA000495	3x185/90°SU+95RU	1.6/1.1	2.4	3.285	46.5	697
PGA017665	3x240/90°SM+120RM	1.7/1.2	2.7	4.266	54.9	823
PGA013894	3x240/90°SU+120RU	1.7/1.2	2.6	4.051	51.6	775

ELECTRICAL INFORMATION

PGA CODE	NUMBER OF PHASES X CROSS SECTION (mm²)	ELECTRICAL RESISTANCE,20°C (Ohm/km)	ELECTRICAL RESISTANCE,70°C (Ohm/km)	INDUCTANCE (mH/km)	LOADING IN GROUND (A)	LOADING IN AIR (A)
1 x conductor						
PGA029757	1x95 RM	0.32	0.386	0.302	374	323
PGA034493	1x120 RM	0.253	0.305	0.294	427	378
PGA029756	1x150 RM	0.206	0.248	0.290	478	433
PGA028870	1x185 RM	0.164	0.198	0.287	543	503
PGA028869	1x240 RM	0.125	0.151	0.281	633	602
PGA021428	1x300 RM	0.1	0.12	0.279	719	699
2 x conductors						
PGA024544	2x16 RU	1.91	2.301	0.262	113	104
PGA000490	2x25 RU	1.2	1.446	0.257	113	104
3 x conductors						
PGA000494	3x16 RU	1.91	2.301	0.262	113	104
PGA021486	3x25 RU	1.2	1.446	0.257	113	104
PGA032018	3x240/120°SU	0.125	0.152	0.231	397	430
4 x conductors						
PGA000502	4x16 RU	1.91	2.301	0.285	113	104
PGA000503	4x25 RU	1.2	1.446	0.280	113	104
PGA000505	4x35/90°SU	0.868	1.046	0.271	136	128
PGA019469	4x50/90°SU	0.641	0.772	0.271	159	152
PGA025261	4x70/90°SU	0.443	0.534	0.262	197	194
PGA034265	4x95/90°SM	0.32	0.386	0.261	236	239
PGA019470	4x95/90°SU	0.32	0.386	0.261	236	239
PGA034259	4x120/90°SM	0.253	0.305	0.259	269	278
PGA027316	4x120/90°SU	0.253	0.305	0.259	269	278
PGA019471	4x150/90°SU	0.206	0.248	0.257	303	316
PGA033158	4x185/90°SM	0.164	0.198	0.256	342	365
PGA024830	4x185/90°SU	0.164	0.198	0.256	342	365
PGA034285	4x240/90°SM	0.125	0.151	0.255	397	430
PGA028322	4x240/90°SU	0.125	0.151	0.255	397	430

MADE IN ROMANIA

ELECTRICAL INFORMATION

PGA CODE	NUMBER OF PHASES X CROSS SECTION (mm²)	ELECTRICAL RESISTANCE,20°C (Ohm/km)	ELECTRICAL RESISTANCE,70°C (Ohm/km)	INDUCTANCE (mH/km)	LOADING IN GROUND (A)	LOADING IN AIR (A)
5 x conductors						
PGA000506	5x16 RU	1.91	2.301	0.304	78	63
PGA000507	5x25 RU	1.2	1.446	0.304	100	82
PGA022834	5x35 RU	0.868	1.046	0.293	120	100
PGA030119	5x50 RU	0.641	0.772	0,293	159	152
PGA040528	5x70 RU	0.443	0.532	0.254	197	194
PGA035621	5x95 RU	0.32	0.386	0.254	236	239
3 x conductors + 1 x conductor						
PGA000497	3x25 RU+16 RU	1.2/1.91	1.446/2.301	0.274	113	104
PGA000498	3x35/90°SU+16RU	0.868/1.91	1.046/2.2301	0.261	136	128
PGA000499	3x50/90°SU+25RU	0.641/1.91	0.772/1.446	0.263	159	152
PGA000500	3x70/90°SU+35RU	0.443/0.868	0.534/1.046	0.254	197	194
PGA034272	3x95/90°SM+50RM	0.32/0.641	0.386/0.772	0.253	236	239
PGA000501	3x95/90°SU+50RU	0.32/0.641	0.386/0.772	0.253	236	239
PGA034262	3x120/90°SM+70RM	0.253/0.443	0.305/0.534	0.250	269	278
PGA000492	3x120/90°SU+70RU	0.253/0.443	0.305/0.534	0.250	269	278
PGA017666	3x150/90°SM+70RM	0.206/0.443	0.248/0.534	0.247	302	316
PGA000493	3x150/90°SU+70RU	0.206/0.443	0.248/0.534	0.247	302	316
PGA034249	3x185/90°SM+95RU	0.164/0.32	0.198/0.386	0.246	342	365
PGA000495	3x185/90°SU+95RU	0.164/0.32	0.198/0.386	0.246	342	365
PGA017665	3x240/90°SM+120RM	0.125/0.253	0.151/0.305	0.245	397	430
PGA013894	3x240/90°SU+120RU	0.125/0.253	0.151/0.305	0.245	397	430

PGA ELECTRIC

MADE IN ROMANIA