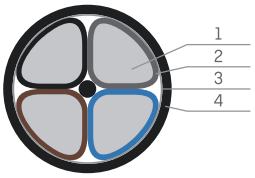
YAKXS



YAKXS

Power cable with aluminum conductors, XLPE insulation and PVC sheath.

CARACTERISTICS

Reference standard
PN-EN IEC 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 PN-EN IEC 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 (RE), stranded conductor (RM), multifilar sector shaped conductor (SM) or unifilar sector-shaped conductor (SE), class 1 or 2 according to PN-EN 60228

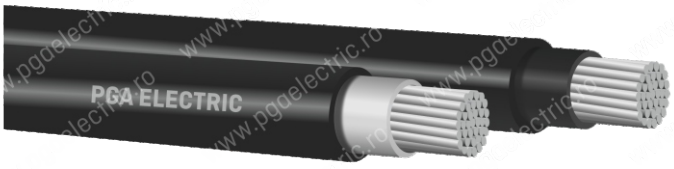
Insulation (2)
Crosslinked polyethylene (XLPE)

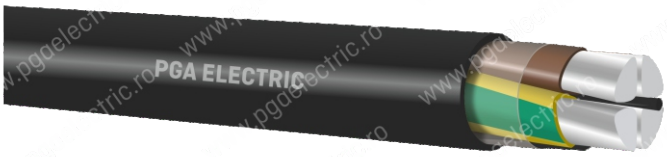
Inner coverings (3)
Non-metallic strips applied helically

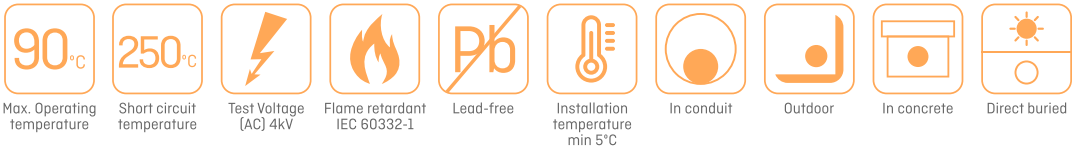
Outer Sheath (4)
PVC type 1, black

Marking on the Outer sheath
Ex:"PGA ELECTRIC YAKXS 4x240 0.6/1kV(year) (length)/ (length)"

Color coding
1 conductor: ● Black
2 conductors: ● Brown ● Blue
3 conductors: ● Black ● Grey ● Brown
4 conductors: ● Black ● Grey ● Brown ● Blue







MADE IN ROMANIA

DIMENSIONAL INFORMATION

PGA CODE	NUMBER OF PHASES X CROSS SECTION (mm²)	NOMINAL INSULATION THICKNESS (mm)	NOMINAL SHEATH THICKNESS (mm)	MASS INF. (kg/km)	EXTERNAL DIAMETER (mm)	MINIMUM BENDING RADIUS (mm)
1 x conductor						
PGA030699	1x50 RM	1	1.4	225	13	155
PGA030698	1x70 RM	1.1	1.4	300	15	175
PGA030697	1x95 RM	1.1	1.5	390	17	200
PGA030696	1x120 RM	1.2	1.55	485	19	225
PGA030695	1x150 RM	1.4	1.6	580	20	245
PGA030694	1x185 RM	1.6	1.65	720	23	275
PGA030453	1x240 RM	1.7	1.75	920	26	310
PGA030900	1x300 RM	1.8	1.85	1.115	28	335
3 x conductors						
PGA030702	3x95/120°SE	1.1	1.9	1.090	28	420
PGA030703	3x120/120°SE	1.2	2	1.345	31	465
PGA030704	3x150/120°SE	1.4	2.1	1.650	35	520
PGA030705	3x185/120°SE	1.6	2.2	2.045	39	575
PGA030706	3x240/120°SE	1.7	2.3	2.605	43	640
PGA030707	3x300/120°SE	1.8	2.45	3.150	46	690
4 x conductors						
PGA031593	4x16 RE	0.7	1.8	380	19	280
PGA032339	4x25 RE	0.9	1.8	525	22	335
PGA032341	4x35 RE	0.9	1.8	635	23	340
PGA030796	4x50/90°SE	1	1.8	795	25	370
PGA030633	4x70/90°SE	1.1	1.9	1.080	29	440
PGA030795	4x95/90°SE	1.1	2	1.410	32	480
PGA030473	4x120/90°SE	1.2	2.1	1.750	36	535
PGA030794	4x150/90°SE	1.4	2.2	2.140	39	585
PGA030513	4x185/90°SE	1.6	2.35	2.605	43	650
PGA030632	4x240/90°SE	1.7	2.5	3.410	48	725
PGA034294	4x240/90°SM	1.7	2.6	3.525	52	615

PGA ELECTRIC

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)
1 x conductor						
PGA030699	1x50 RM	0.641	0.772	0.281	178	160
PGA030698	1x70 RM	0.443	0.534	0.271	219	204
PGA030697	1x95 RM	0.32	0.386	0.264	261	252
PGA030696	1x120 RM	0.253	0.305	0.260	298	294
PGA030695	1x150 RM	0.206	0.248	0.259	334	340
PGA030694	1x185 RM	0.164	0.198	0.257	379	398
PGA030453	1x240 RM	0.125	0.151	0.253	440	476
PGA030900	1x300 RM	0.100	0.120	0.250	498	552
3 x conductors						
PGA030702	3x95/120°SE	0.32	0.386	0.238	234	234
PGA030703	3x120/120°SE	0.253	0.305	0.238	268	273
PGA030704	3x150/120°SE	0.206	0.248	0.233	300	311
PGA030705	3x185/120°SE	0.164	0.198	0.233	364	365
PGA030706	3x240/120°SE	0.125	0.151	0.192	422	430
PGA030707	3x300/120°SE	0.100	1.208	0.185	480	490
4 x conductors						
PGA031593	4x16 RE	1.91	2.301	0.267	97	81
PGA032339	4x25 RE	1.2	1.446	0.265	126	109
PGA032341	4x35 RE	0.868	1.046	0.234	147	128
PGA030796	4x50/90°SE	0.641	0.772	0.227	175	156
PGA030633	4x70/90°SE	0.443	0.534	0.226	215	198
PGA030795	4x95/90°SE	0.32	0.386	0.220	256	243
PGA030473	4x120/90°SE	0.253	0.305	0.219	292	284
PGA030794	4x150/90°SE	0.206	0.248	0.218	327	325
PGA030513	4x185/90°SE	0.164	0.198	0.217	370	378
PGA030632	4x240/90°SE	0.125	0.151	0.213	426	447
PGA034294	4x240/90°SM	0.125	0.151	0.209	430	460

INSTALLATION CONDITIONS

INSTALLATION TYPE	THERMAL REZISTIVITY OF GROUND (1 Km/W)	INSTALLATION DEPTH (m)	TEMPERATURE (°C)	LOADING FACTOR (-)
In the air	-	-	30	1.0
In the ground	1	0.7	20	0.7

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