AC2XAbY

Cablu de energie, armat, cu conductori de aluminiu, izolatie de polietilena reticulata si manta de PVC

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

CARACTERISTICI

Standard de referinta: SR CEI 60502-1
Tensiune nominala U0/U(Um): 0.6/1(1.2) kV
Tensiunea de incercare: 3.5 kV, 50 Hz, timp de 5 minute.
Temperatura maxima conductorului in functionare normala: +90°C
Temperatura maxima a conductorului in scurt-circuit(max.5 s): +250°C
Temperatura mediului ambient:
- la pozare: -5°C....+50°C
- in exploatare: -40°C....+70°C
* Cablurile sunt cu rezistenta la UV
* Rezistenta la propagarea flacarii: conform SR CEI 60332-1-2
Raza minima de curbura la instalare:
-12 x diametrul cablului pentru conductoarele multifilare
-15x diametru cablului pentru conductoarele unifilare
Forta maxima de tractiune la pozare: 30 N/mm2
Modalitate de ambalare: Colaci de min.50 m lungime sau tamburi

CARACTERISTICS

Reference standard: 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
Max. conductor temperature in short-circuit (max 5 s): +250°C
Ambientala temperature:
- during instalation: -5°C....+50°C
- in use: -40°C....+70°C
* UV resistant cables
*Flame retardant; test according to SR CEI 60332-1-2
Min. bending radius at installation:
-12 x cable diameter for multifilar conductors
-15 x cable diameter for unifilar conductors
Maximum tensile strain at installation: 30 N/mm2
Packaging: Coils of min. 50 m lenght or drums

DOMENIU DE UTILIZARE

Cablurile sunt destinate transportului energiei electrice in instalatii fixe . Utilizarea lor este permisa numai in mediile in care mantaua nu este atacata de agenti corozivi ca: acetona, ciclohexanona. Cablurile pot fi pozate in spatii inchise si deschise, in pamant, in canale, in beton.

UTILIZATION

The cables are designed for the energy transport in fix instalations. They can be used only in environments where the outher 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.

CONSTRUCTIE

Conductor de aluminiu: Conductor unifilar (RU), multifilar (RM), sector multifilar (SM) sau sector unifilar (SU), clasa 1 sau 2 conf. SR EN 60228

Izolatia: Polietilena reticulata (XLPE).
Invelis intern: benzi nemetalice applicate elicoidal
Armatura: Banda de otel laminata la rece nezincata sau zincata (z)
Manta exterioara: PVC tip ST1 negru sau gri
Marcaj pe manta:Ex: "PGA ELECTRIC AC2XABY 3x240 SM+120RM 0.6/1kV (an) (metraj)"
Cod de culori:
- 1 conductor: negru, sau galben-verde
- 2 conductoare: albastru, maro
- galben-verde, negru, pt sect >10mm^2
- 3 conductoare: maro, negru, gri
- galben-verde, albastru, maro
- 4 conductoare: albastru, maro, negru, gri
- galben-verde, maro, negru, gri
- 5 conductoare: albastru, maro, negru, gri, negru
- galben-verde, albastru, maro, negru, gri

CONSTRUCTION

Aluminum conductor: Solid conductor (RU), concentrically stranded conductor (RM), multifilar sector-shaped conductor (SM) or unifilar sectorshaped conductor (SU), class 1 or2 acc. to SR EN 60228
Insulation: Crosslinked polyethylene (XLPE)
Inner coverings: non-metallic strips applied helically
Armor: Blank or zinc-plated cold-rolled steel tape (z)
Outher Sheath: PVC type 1, black or grey.
Marking on the Outher sheath:Ex: "PGA AC2XABY 3x240 SM+120RM 0.6/1kV (year) (length)"
Color coding:
-1 conductor: black or yellow-green
- 2 conductors: blue, brown
- yellow-green, black for sect>10 mm^2
- 3 conductors: brown, black, grey
- yellow-green, blue, brown
- 4 conductors: blue, brown, black, grey
- yellow-green, brown, black, grey
- 5 conductors- blue, brown, black, grey, black
- yellow-green, blue, brown, black, grey

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Date dimensionale/Dimensional information

Cod PGA/ PGA Code	Numar de faze x Sectiunea/ Number of phases x Cross section (mm2)	Grosime nominala izolatie/Nominal insulation thickness (mm)	Grosime nominala manta/Nominal thickness (mm)	Masa inf./ Mass inf. (kg/km)	Diametru exterior/ External diameter (mm)	Raza minima de curbura/ Minimum bending radius (mm)
		1x 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
		2x conductor/conductors				
PGA024544	2x16 RU	0.7	1.8	355	17.6	264
PGA000490	2x25 RU	0.9	1.8	475	20.6	309
		3x conductor/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
		4x conductor/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
		5x conductor/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

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5x conductor/conductors						
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
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

Date electrice/Electrical information

Cod PGA/ PGA Code	Numar de faze x Sectiunea/ Number of phases x Cross section (mm2)	Rezistenta electrica,20°C/ Electrical resistance,20°C (Ohm/km)	Rezistenta electrica,70°C/ Electrical resistance,70°C (Ohm/km)	Inductanta/ Inductance (mH/km)	Incarcare in pamant / Loading in ground (A)	Incarcare in aer/ Loading in air (A)
1x 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
2x conductor/conductors						
PGA024544	2x16 RU	1.91	2.301	0.262	113	104
PGA000490	2x25 RU	1.2	1.446	0.257	113	104
3x conductor/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
4x conductor/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

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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
			5x conductor/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
			3x conductor/conductors + 1x conductor/conductors			
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