YAKXS

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

Unarmored 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: 4 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
-15 x 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: 4 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

Ambiental 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 fix . 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 (RE), multifilar (RM), sector multifilar (SM) sau sector unifilar (SE), clasa 1 sau 2 conf. SR EN 60228

Izolatia: Polietilena reticulata (XLPE).
Invelis intern: benzi nemetalice applicate elicoidal
Manta exterioara: PVC tip ST1 negru
Marcaj pe manta:
Ex:"PGA ELECTRIC YAKXS 4x240 0.6/1Kv (an) (metraj)/(metraj)"

Cod de culori:
- 1 conductor: negru
- 2 conductoare: maro, albastru
- 3 conductoare: negru, gri, maro
- 4 conductoare:, negru, gri, maro, albastru

CONSTRUCTION

Aluminum conductor:
Solid conductor (RE), stranded conductor(RM), multifilar sector shaped conductor (SM) or unifilar sector-shaped conductor (SE), class 1 or 2 acc. to SR EN 60228
Insulation: Crosslinked polyethylene (XLPE)
Inner coverings: non-metallic strips applied helically
Outher Sheath: PVC type 1, black
Marking on the Outher 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

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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				
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
		3x conductor/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
		4x conductor/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

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Date electrice/Electrical information

Cod PGA/ PGA Code	Numar de faze x Sectiunea/ Number of phases x Cross section (mm2)	Rezisitenta 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			
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
			3x conductor/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
			4x conductor/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

Conditii de pozare/ installation conditions

Tip pozare/ Instalation type	Rezisitivitate termica sol /Thermal rezisitivity of ground (1 Km/W)	Adancime de pozare /Instalation depth (m)	Temperatura /Temerature (°C)	Factor de incarcare /Loading factor (-)
In aer/in the air	-	-	30	1.0
In pamant/In the ground	1	0.7	20	0.7