C2XH , N2XH



Cablu de energie cu izolatie in polietilena reticulata si manta fara halogen

Crosslinked insulated (XLPE) halogen free sheathed power cables



Standard de fabricatie: SR HD 604 S1; IEC 60502-1;
Tensiune nominala U_0/U(Um): 0.6/1(1.2) kV
Tensiunea de incercare: 4 kV, 50 Hz, timp de 5 minute.

Domeniul de utilizare
Cablurile sunt destinate pentru instalaţii electrice fixe in centrale electrice, în cladiri publice, gari, aeroporturi, staţii de metrou, supermarketuri, sali de spectacole, spitale, muzee etc. La ardere cablurile nu degaja gaze toxice şi corosive şi au emisie redusa de fum.
Cablurile se pot instala în locuri umede, dar nu direct în apa sau în pamant.
Temperatura conductorului in functionarea de durata: -30 ÷ +90ºC
Temperatura maxima a conductorului in scurtcircuit (max 5 s): +250ºC
Temperatura minima a cablului la montaj (masurata pe manta): -5ºC
Conductor de cupru
Conductor cupru conf SR EN 60228
Izolatia
Polietilena reticulata (XLPE), tip DIX 3
Manta
Poliolefina, tip HM4 fara halogen.
Cabluri sunt cu intarziere marita la propagarea flacarii conf.SR EN 60332-3-24/ cat.C
Corozivitatea gazelor de ardere conf. SR EN 60754-2
- ✓ pH : ≥ 4.3
- ✓ Conductivitatea: ≤ 10 µS/mm

* Densitatea fumului conf. SR EN 61034-1
* Permeabilitatea luminii: ≥ (50-70) %
Marcaj pe manta
SC ELECTROPLAST SA, simbol cablu, tensiune de lucru, an de fabricatie.
Raza minima de curbura la instalare
15 x diametrul cablului- cablu monofilar
12 x diametrul cablului- cablu multifilar
Forta maxima de tractiune la pozare
50 N/mm^2
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

* Mai mult de 5 conductoare:
- ➢ conductoare negre numerotate
- ➢ galben-verde, conductoare negre numerotate

Reference standard: SR HD 604 S1; IEC 60502-1;
Rated voltage U_0/U(Um): 0.6/1(1.2) kV
Test voltage: 4 kV, 50 Hz, for 5 minutes.

Applications
Cables are designed for fixed wirings in power stations, public buildings, train stations, airports, subway stations, supermarkets, concert/ theatre halls, hospitals, museums etc. They do not release toxic or corrosive gases during combustion and have low smoke emission.
The cables can be laid in wet environments, but not directly in the water or under the earth.
Conductor temperature in long-run operation: -30ºC ÷ +90ºC
Max. conductor temperature in short-circuit (max 5 s): +250ºC
Minimum cable temperature during installation (masured on sheath surface): -5ºC
Conductor
Copper conductor according to SR EN 60228
Insulation
Crosslinked polyethylene (XLPE), DIX 3 type
Sheath
Poliolefin, HM4 type.
Extra flame retardant cables, according to EN 60332-3-24/ C category
Corrosivity of gases evolved acc. to SR EN 60754-2
- ✓ pH: ≥ 4.3
- ✓ Conductivity: ≤ 10 µS/mm

* Smoke density according SR EN 61034-1
* Light permeability: ≥(50-70) %
Sheath marking
SC ELECTROPLAST SA, cable symbol , operational voltage, manufacture year.
Min. bending radius at installation
15 x cable diameter- single-core cable
12 x cable diameter- multi-core cable
Max. tensile strain at installation
50 N/mm^2
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

* More than 5 conductors:
- ➢ numbered black conductors
- ➢ yellow-green, numbered black conductors

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Crosslinked insulated (XLPE) halogen free sheathed power cables

Tipodimensiune cablu *Cable size*	**Tip conductor** *Cond. type*	**Grosime radiala izolatie** *Insulation's radial thickness* mm	**Grosime radiala manta** *Sheath's radial thickness* mm	**Rezistenta electrica max,la 20°C** *Max. resistance at 20°C* Ω/km	**Diametru exterior** *Outer diameter* mm	**Masa inf** *Mass inf* kg/km
1x4	re	0.7	1.2	4.61	7.6	68
1x6	re	0.7	1.2	3.08	8.2	110
1x10	re	0.7	1.2	1.83	9.2	160
1x16	re	0.7	1.2	1.15	10.5	228
1x25	rm	0.9	1.2	0.727	12.5	279
1x35	rm	0.9	1.2	0.524	13.5	369
1x50	rm	1.0	1.2	0.387	15.0	492
1x70	rm	1.1	1.2	0.268	17.0	687
1x95	rm	1.1	1.3	0.193	16.2	929
1x120	rm	1.2	1.3	0.153	17.9	1145
1x150	rm	1.4	1.3	0.124	19.6	1391
1x185	rm	1.6	1.4	0.0991	22.0	1757
1x240	rm	1.7	1.4	0.0754	24.4	2249
1x300	rm	1.8	1.5	0.0601	26.9	2807
1x400	rm	2.0	1.5	0.0470	30.2	3672
1x630	rm	2.4	1.7	0.0283	40.3	5916
2x1.5	re	0.7	1.2	12.1	8.7	115
2x2.5	re	0.7	1.2	7.41	9.5	146
2x2.5	rm	0.7	1.2	7.41	10.0	164
2x4	re	0.7	1.2	4.61	10.4	189
2x6	re	0.7	1.2	3.08	11.4	246
2x10	re	0.7	1.2	1.83	13.0	351
2x16	re	0.7	1.2	1.15	14.8	496
2x25	rm	0.9	1.3	0.727	18.8	780
2x35	rm	0.9	1.4	0.524	21.0	1026
3x1.5	re	0.7	1.2	12.1	9.0	128
3x2.5	re	0.7	1.2	7.41	9.8	167
3x2.5	rm	0.7	1.2	7.41	10.3	185
3x4	re	0.7	1.2	4.61	10.7	220
3x4	rm	0.7	1.2	4.61	11.4	243
3x6	re	0.7	1.2	3.08	11.8	292
3x6	rm	0.7	1.2	3.08	12.7	324
3x10	re	0.7	1.2	1.83	13.5	428
3x16	re	0.7	1.3	1.15	15.6	624
3x16+10	re	0.7/0.7	1.3	1.15/1.83	17.1	711
3x25	rm	0.9	1.3	0.727	19	963
3x25+16	rm/re	0.9/0.7	1.4	0.727/1.15	21.1	1144
3x35	sm	0.9	1.4	0.524	19.1	1100
3x35+16	rm/re	0.9/0.7	1.4	0.524/1.15	22.9	1518
3x50	sm	1.0	1.8	0.387	24.1	1519
3x50+25	sm/rm	1.0/0.9	1.8	0.387/0.727	24.1	1748

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Cablu de energie cu izolatie din polietilena reticulata si manta fara halogen

Crosslinked insulated (XLPE) halogen free sheathed power cables

Tipodimensiune cablu *Cable size*	**Tip conductor** *Cond. type*	**Grosime radiala izolatie** *Insulation's radial thickness* mm	**Grosime radiala manta** *Sheath's radial thickness* mm	**Rezistenta electrica max,la 20°C** *Max. resistance at 20°C* Ω/km	**Diametru exterior** *Outer diameter* mm	**Masa inf** *Mass inf* kg/km
3x70	sm	1.1	1.9	0.268	28.7	2140
3x70+35	sm/rm	1.1/0.9	1.8	0.268/0.524	27.3	2420
3x95	sm	1.1	1.9	0.193	30.5	2844
3x95+50	sm/rm	1.1/1.0	1.9	0.193; 0.387	30.9	3276
3x120	sm	1.2	2.0	0.153	33.5	3519
3x120+70	sm/rm	1.2/1.1	2.1	0.153/0.268	34.3	4150
3x150	sm	1.4	2.2	0.124	37.5	4334
3x150+70	sm/rm	1.4/1.1	2.1	0.124/0.268	35.7	4903
3x150+95	sm/rm	1.4/1.1	2.1	0.124/0.193	35.7	5130
3x185	sm	1.6	2.3	0.0991	41.3	5453
3x185+95	sm/rm	1.6/1.1	2.3	0.0991/0.193	42.3	6293
3x240	sm	1.7	2.4	0.0754	44.3	6977
3x240+120	sm/rm	1.7/1.2	2.6	0.0754/0.153	51.9	8147
4x1.5	re	0.7	1.2	12.1	9.9	157
4x2.5	re	0.7	1.2	7.41	10.8	206
4x2.5	rm	0.7	1.2	7.41	11.4	229
4x4	re	0.7	1.2	4.61	11.9	278
4x4	rm	0.7	1.2	4.61	12.6	305
4x6	re	0.7	1.2	3.08	13.1	371
4x10	re	0.7	1.3	1.83	15.3	558
4x16	re	0.7	1.3	1.15	17.4	806
4x25	rm	0.9	1.4	0.727	22.2	1262
4x25+16	rm;re	0.9/0.7	1.4	0.727/1.15	24	1490
4x35	sm	0.9	1.4	0.524	21.3	1440
4x35+16	rm;re	0.9/0.7	1.5	0.524/1.15	27.3	1999
4x50	sm	1.0	1.5	0.387	26.5	1986
4x50+25	rm;rm	1.0/0.9	1.6	0.387/0.727	30.9	2634
4x70	sm	1.1	1.5	0.268	29.7	2741
4x70+35	rm;rm	1.1/0.9	1.7	0.268/0.524	35.9	3696
4x95	sm	1.1	1.6	0.193	33.3	3711
4x95+50	rm;rm	1.1/1.0	1.8	0.193/0.387	40.7	4963
4x120	sm	1.2	1.7	0.153	36.9	4609
4x120+70	rm;rm	1.2/1.1	1.8	0.153/0.268	45.3	6207
4x150	sm	1.4	1.8	0.124	40.7	5672
4x150+70	rm;rm	1.4/1.1	1.9	0.124/0.268	50.1	7493
4x185	sm	1.6	1.8	0.0991	44.7	7141
4x185+95	rm;rm	1.4/1.1	2.0	0.0991/0.193	56.2	9519
4x240	sm	1.7	1.9	0.0754	50.5	9216
5x1.5	re	0.7	1.2	12.1	10.6	188
5x2.5	re	0.7	1.2	7.41	11.7	249
5x2.5	rm	0.7	1.2	7.41	12.4	276

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5x4	re	0.7	1.2	4.61	12.9	337
5x4	rm	0.7	1.2	4.61	13.7	372
5x6	re	0.7	1.2	3.08	14.3	453
5x6	rm	0.7	1.2	3.08	15.4	505
5x10	re	0.7	1.3	1.83	16.6	683
5x16	re	0.7	1.3	1.15	19.1	990
5x25	rm	0.9	1.4	0.727	24.4	1553
5x35	rm	0.9	1.5	0.524	27.3	2082
5x50	rm	1.0	1.6	0.387	31.3	2791
5x70	rm	1.1	1.6	0.268	36.1	3886
5x95	rm	1.1	1.8	0.193	41.1	5241
5x120	rm	1.2	1.8	0.153	45.7	6495
5x150	rm	1.4	1.9	0.124	50.5	7981
5x185	rm	1.6	2.1	0.0991	57.9	9980
7x1.5	re	0.7	1.2	12.1	11.5	223
7x2.5	re	0.7	1.2	7.41	12.6	301
7x4	re	0.7	1.2	4.61	14.0	415
8x1.5	re	0.7	1.2	12.1	12.5	288
8x2.5	re	0.7	1.3	7.41	14.9	425
8x4	re	0.7	1.3	4.61	16.5	546
10x1.5	re	0.7	1.2	12.1	13.4	336
10x2.5	re	0.7	1.3	7.41	15.9	497
10x4	re	0.7	1.3	4.61	17.8	647
12x1.5	re	0.7	1.3	12.1	14.0	373
12x2.5	re	0.7	1.3	7.41	16.4	544
12x4	re	0.7	1.3	4.61	18.3	717
14x1.5	re	0.7	1.3	12.1	14.7	415
14x2.5	re	0.7	1.3	7.41	17.2	606
14x4	re	0.7	1.3	4.61	19.2	806
19x1.5	re	0.7	1.3	12.1	16.4	520
19x2.5	re	0.7	1.3	7.41	19.1	763
19x4	re	0.7	1.4	4.61	21.6	1042

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