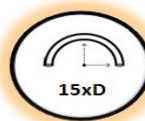
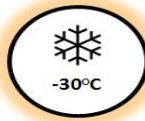
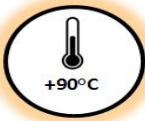




Cablu de energie cu izolatie de polietilena reticulata si manta fara halogen

Power cable with XLPE insulation and halogen free jacket



Standard de fabricatie: SR HD 604 S1/5G;
Tensiune nominala $U_0/U(\text{Um})$: 0.6/1(1.2) kV
Tensiunea de incercare: 4 kV, 50 Hz, timp de 5 minute.

Domeniul de utilizare

Cablurile sunt destinate pentru instalatii electrice fixe in centrale electrice, in cladiri publice, gari, aeroporturi, statii de metrou, supermarketuri, sali de spectacole, spitale etc. La ardere cablurile nu degaja gaze toxice si corozive si au emisie redusa de fum. Cablurile se pot instala in locuri umede, dar nu direct in apa sau in pamant

Temperatura conductorului de cupru in functionarea de durata: -30 ÷ +90°C

Temperatura maxima a conductorului in scurtcircuit (max. 5 s): +250°C

Temperatura minima a cablului la montaj (masurata pe manta): -5°C

Conductor de cupru

Conductor unifilar (re), multifilar (rm), sau sector-multifilar (sm), conf. SR EN 60228

Izolatie

Polietilena reticulata (XLPE)

Invelis intern

Poliiolefina tip HM4, fara halogen.

Conductor concentric +contraspira

Sarme de cupru + contraspira din banda de Cu
 Conductorul concentric poate fi utilizat ca si nul (N), cond. de protectie (PE) sau impamantare (PEN), sau ca si ecran de protectie impotriva campurilor electromagnetice.

Manta exterioara

Poliiolefina tip HM4, fara halogen.
 Cabluri sunt cu rezistenta 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*cm⁻¹

* 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, marcaj lungime.

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/mm²

Cod de culori

- 1 conductor: galben-verde sau negru
- 2 conductoare: albastru, maro
- 3 conductoare: maro, negru, gri
- 4 conductoare: albastru, maro, negru, gri
- 5 conductoare: albastru, maro, negru, gri, negru

Mai mult de 5 conductoare:

- conductoare negre numerotate
- g-v, negre numerotate

Reference standard: SR HD 604 S1/5G;
Rated voltage $U_0/U(\text{Um})$: 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 / theater halls, hospitals etc. They do not release toxic or corrosive gases during combustions 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: -30 ÷ +90°C

Max. conductor temperature in short-circuit (max 5 s): +250°C

Minimum cable temperature during installation (measured on sheath surface): -5°C

Copper conductor

Solid conductor (re), concentrically stranded conductor (rm) or sector-shaped conductor (sm), acc. to SR EN 60228

Insulation

Crosslinked polyethylene (XLPE)

Inner sheath

Halogen free polyolefin, HM4 type.

Concentric conductor + counter helix

Copper wires + copper tape counter helix
 Concentric conductor can be used as neutral (N), protective (PE) or earth connection (PEN), or as a EMC protection screen.

Sheath

Halogen free polyolefin, HM4 type.
 Extra flame retardant cables, test acc. to EN 60332-3-24/ C category.

Corrosivity of gases evolved according SR EN 60754-2

- ✓ pH ≥ 4.3
- ✓ Conductivity: ≤ 10 μS*cm⁻¹

* Smoke density according SR EN 61034-1

* Light permeability: ≥(50-70) %

Sheath marking

SC ELECTROPLAST SA, cable symbol, operational voltage, manufacture year, length marking.

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/mm²

Color coding

- 1 conductor: yellow-green or black
- 2 conductors: blue, brown
- 3 conductors: brown, black, grey
- 4 conductors: blue, brown, black, grey
- 5 conductors: blue, brown, black, grey, black

More than 5 conductors:

- numbered black conductors
- yellow-green, numbered black conductors



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

Power cable with XLPE insulation and halogen free jacket

Tipodimensiune cablu	Tip conductor	Grosime radiala izolatie	Rezistenta electrica max, la 20°C	Diametru exterior	Masa inf
<i>Cable size</i>	<i>Cond. type</i>	<i>Insulation's radial thickness</i>	<i>Max. resistance at 20°C</i>	<i>Outer diameter</i>	<i>Mass inf</i>
		mm	Ω/km	mm	kg/km
1x25/16	rm	0.9	0.727	13.9	470
1x25/25	rm	0.9	0.727	14.4	548
1x50/50	rm	1.0	0.387	17.6	964
1x95/16	rm	1.1	0.193	19.9	1134
1x120/50	rm	1.4	0.153	22.2	1625
1x185/50	rm	1.6	0.0991	28.0	2296
1x185/95	rm	1.6	0.0991	28.5	2717
1x240/50	rm	1.7	0.0754	29.9	2790
1x240/120	rm	1.7	0.0754	30.9	3414
1x300/150	rm	1.8	0.0601	34.2	4235
2x1.5/1.5	re	0.7	12.2	11.3	172
2x2.5/2.5	re	0.7	7.41	12.3	211
2x4/4	re	0.7	4.61	13.2	270
2x6/6	re	0.7	3.08	14.5	345
2x10/2.5	re	0.7	1.83	15.8	438
2x10/10	re	0.7	1.83	16.2	495
2x16/16	re	0.7	1.15	18.0	690
2x25/16	rm	0.9	0.727	21.7	975
2x25/25	rm	0.9	0.727	22.9	1073
2x35/16	rm	0.9	0.524	23.8	1220
2x35/25	rm	0.9	0.524	25.0	1307
3x1.5/1.5	re	0.7	0.387	11.6	186
3x2.5/2.5	re	0.7	7.41	12.6	232
3x4/4	re	0.7	4.61	13.7	305
3x6/6	re	0.7	3.08	15.1	400
3x10/10	re	0.7	1.83	16.9	587
3x16/16	re	0.7	1.15	18.8	836
3x25/16	rm	0.9	0.727	22.8	1185
3x25/25	rm	0.9	0.727	23.5	1273
3x35/16	sm	0.9	0.524	25.4	1360
3x50/25	sm	1.0	0.387	25.7	1780
3x70/35	sm	1.1	0.268	29.3	2037
3x95/50	sm	1.1	0.193	34.2	3340
3x120/70	sm	1.2	0.153	40.0	4515
3x150/70	sm	1.4	0.124	42.2	5102
3x185/95	sm	1.6	0.0991	45.4	6452
3x240/120	sm	1.7	0.0754	48.9	7925



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

**Power cable with XLPE insulation and
halogen free jacket**

Tipodimensiune cablu	Tip conductor	Grosime radiala izolatii	Rezistenta electrica max, la 20°C	Diametru exterior	Masa inf
<i>Cable size</i>	<i>Cond. type</i>	<i>Insulation's radial thickness</i>	<i>Max. resistance at 20°C</i>	<i>Outer diameter</i>	<i>Mass inf</i>
		mm	Ω/km	mm	kg/km
4x1.5/1.5	re	0.7	12.1	12.5	218
4x1.5/16	re	0.7	12.1	13.0	346
4x2.5/2.5	re	0.7	7.41	13.5	275
4x2.5/16	re	0.7	7.41	13.9	394
4x4/4	re	0.7	4.61	14.7	362
4x4/16	re	0.7	4.61	15.1	470
4x6/6	re	0.7	3.08	16.2	476
4x10/10	re	0.7	1.83	18.2	705
4x16/16	re	0.7	1.15	20.3	1004
4x25/16	rm	0.9	0.727	25.1	1465
4x25/25	rm	0.9	0.727	26.3	1560
4x35/16	sm	0.9	0.524	27.9	1717
4x50/25	sm	1.0	0.387	29.9	2280
4x50/50	sm	1.0	0.387	30.4	2460
4x70/35	sm	1.1	0.268	34.3	3173
4x95/50	sm	1.1	0.193	37.9	4235
4x120/70	sm	1.2	0.153	42.2	5212
4x185/95	sm	1.6	0.0991	50.4	8105
4x240/120	sm	1.7	0.0754	57	10488
5x1.5/1.5	re	0.7	12.1	13.2	244
5x2.5/2.5	re	0.7	7.41	14.5	312
5x4/4	re	0.7	4.61	15.7	412
5x4/16	re	0.7	4.61	16.1	518
5x6/6	re	0.7	3.08	17.0	540
5x10/10	re	0.7	1.83	19.6	811
5x10/16	re	0.7	1.83	19.6	884
5x16/16	re	0.7	1.15	22.0	1165
5x25/16	rm	0.9	0.727	27.3	1707
5x35/16	rm	0.9	0.524	30.1	2227
5x50/25	rm	1.0	0.387	34.7	2995
5x50/50	rm	1.0	0.387	35.2	3187
7x1.5/1.5	re	0.7	12.1	14.1	291
7x1.5/16	re	0.7	12.1	14.6	414
7x2.5/2.5	re	0.7	7.41	15.4	378

N2XCH

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

**Power cable with XLPE insulation and
halogen free jacket**

Tipodimensiune cablu	Tip conductor	Grosime radiala izolatie	Rezistenta electrica max, la 20°C	Diametru exterior	Masa inf
<i>Cable size</i>	<i>Cond. type</i>	<i>Insulation's radial thickness</i>	<i>Max. resistance at 20°C</i>	<i>Outer diameter</i>	<i>Mass inf</i>
		mm	Ω/km	mm	kg/km
7x2.5/16	re	0.7	7.41	15.8	496
7x4/10	re	0.7	4.61	17.8	566
7x4/16	re	0.7	4.61	17.1	616
9x2.5/4	re	0.7	7.41	18.1	441
10x1.5/4	re	0.7	12.1	16.9	367
10x2.5/4	re	0.7	7.41	18.5	472
12x1.5/4	re	0.7	12.1	17.3	405
12x2.5/4	re	0.7	7.41	19.0	529
14x1.5/4	re	0.7	12.1	18.1	445
14x1.5/16	re	0.7	12.1	18.4	553
14x2.5/4	re	0.7	7.41	19.8	591
16x2.5/6	re	0.7	7.41	20.9	667
19x1.5/6	re	0.7	12.1	19.9	570
19x2.5/6	re	0.7	7.41	21.9	762
24x1.5/16	re	0.7	12.1	21	752