DeeCables
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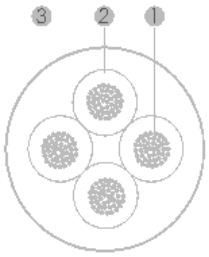
Power cable H05Z1Z1-F CPR Cca-s1a,d1,a1

1. **Electrolytic bare flexible copper conductor**
2. **TI6 halogen-free thermoplastic insulation with improved fire resistance**
3. **TM7 halogen-free thermoplastic outer sheath with improved fire resistance**



APPLICATIONS

Suitable for all applications where a cable with a very small amount of halogens and, moreover, and having low emission of smoke and corrosive gases when exposed to fire, is required. Suitable for use in environments with a greater risk in case of fire due to the high density of crowding or the high time of evacuation (gyms, entertainment places, hotels, libraries, schools, etc.)

Technical Data			
Temperature range	**- 20 ÷ 70 °C** @ fixed installation	Suitable for outdoor use	
Rated voltage	**300 / 500 VAC**	Suitable for fixed installation	
Test voltage	**2000 VAC**	Bending radius	**≥ 7 x D (@ fixed installation)**
Short-circuit temperature	**160 °C**	Halogen-free	**EN 50525-1, EN 50267-2-2,**
Fire resistance	**IEC 60332-1-2 | CPR class Cca-s1a,d1,a1**		**EN 50267-2-1**

Size conductor [mm2]	Conductor stranding [N° x mm]	Electrical resistance [Ω / Km]	Diameter on insulation [mm]	Radial thickness of insulation [mm]
0.75	24 x 0.193	≤ 26.0	2.33 ± 0.1	≥ 0.60
1	32 x 0.193	≤ 19.5	2.47 ± 0.1	≥ 0.60
1.5	28 x 0.243	≤ 13.3	2.85 ± 0.1	≥ 0.70
2.5	48 x 0.243	≤ 7.98	3.6 ± 0.1	≥ 0.80
4	52 x 0.300	≤ 4.95	4.1 ± 0.1	≥ 0.80

Size conductor [mm2]	Outer diameter [mm]	Thickness of jacket [mm]
2 x 0.75	6.2 ± 0.2	≥ 0.80
3 x 0.75	6.5 ± 0.2	≥ 0.80
4 x 0.75	7.1± 0.2	≥ 0.80
5 x 0.75	8.1 ± 0.2	≥ 0.90
6 x 0.75 *	8.7 ± 0.2	≥ 0.90
7 x 0.75 *	8.7 ± 0.2	≥ 0.90
2 x 1	6.5 ± 0.2	≥ 0.80
3 x 1	6.9 ± 0.2	≥ 0.80
4 x 1	7.8 ± 0.2	≥ 0.90
5 x 1	8.35 ± 0.2	≥ 0.90
6 x 1 *	9.2 ± 0.2	≥ 0.90
7 x 1 *	9.2 ± 0.2	≥ 0.90
2 x 1.5	7.3 ± 0.2	≥ 0.80
3 x 1.5	7.9 ± 0.2	≥ 0.90
4 x 1.5	9.0 ± 0.2	≥ 1.0
5 x 1.5	9.85 ± 0.2	≥ 1.1
6 x 1.5 *	10.4 ± 0.2	≥ 1.1
7 x 1.5 *	10.4 ± 0.2	≥ 1.1

* constructions not included in the EN 50525-3-11 standard and not covered by HAR certificate

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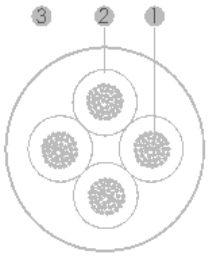

APPLICATIONS

HAR · CPR CERTIFIED · RoHS · REACH

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Size conductor [mm2]	Outer diameter [mm]	Thickness of jacket [mm]
2 x 2.5	9.3 ± 0.2	≥ 1.0
3 x 2.5	10.0 ± 0.2	≥ 1.1
4 x 2.5	10.75 ± 0.3	≥ 1.1
5 x 2.5	12.3 ± 0.3	≥ 1.2
6 x 2.5 *	12.8 ± 0.3	≥ 1.2
7 x 2.5 *	12.8 ± 0.3	≥ 1.2
2 x 4	10.6 ± 0.2	≥ 1.1
3 x 4	11.3 ± 0.2	≥ 1.2
4 x 4	12.4 ± 0.3	≥ 1.2
5 x 4	14.0 ± 0.3	≥ 1.4

* constructions not included in the EN 50525-3-11 standard and not covered by HAR certificate

Standard reference
EN 50525-3-11, Low Voltage European Directive No. 2014/35/EU, EN 50575
IMQ-HAR certificate No. CA01.00252 (only for constructions up to 5 cores), DoP No. 0053

Stranding of conductor
Class 5 electrolytic bare flexible copper conductor conforming to IEC 60228 standard

Insulation
Special TI6 complies with EN 50363-7, halogen-free thermoplastic insulation with improved fire resistance. Hardness : (44 ± 1) Sh-D

Cable assembly
The inner cores are twisted together with a central filler, wherever it's necessary.

Colors of insulation
In compliance with requirements of HD 308 S2 standard or customized color scheme for cables without HAR approval

Outer sheath
Special TM7 complies with EN 50363-8, halogen-free thermoplastic outer sheath with improved fire resistance. Hardness : (44 ± 1) Sh-D

Color of sheath
On customer's request

Ink-jet marking
SALCAVI SPA ITALY - LS0H H05Z1Z1-F SEC. mm2 CPR CLASS Cca-s1a,d1,a1 – WW/YY
(for the constructions with more than 5 cores)