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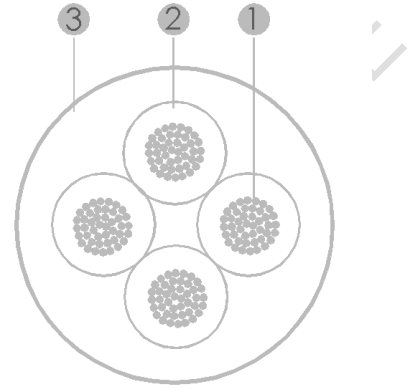
# TECHNICAL DATA SHEET



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## Cavi energia H05BQ-F ed H07BQ-F Power cables H05BQ-F and H07BQ-F



### SCHEMATIC DRAWINGS



### APPLICAZIONI APPLICATIONS

Idonei per installazioni in ambienti umidi o bagnati (AD6 e AD7), uso esterno e per collegamenti soggetti a sollecitazioni meccaniche medie come : apparecchiature in officine industriali e agricole, utensili elettrici (trapani, seghe circolari, motori o generatori trasportabili) in cantieri edili ed impianti agricoli. Particolarmente indicato dove il cavo è soggetto a forti abrasioni e sforzi di strappo.

*Suitable for installation in wet or humid places (AD6 or AD7), outdoor uses and for interconnection where medium mechanical injuries could occur : equipment for industrial and agricultural workshops, power tools (drills, circular saws, portable motors and generators) in building-yard and agricultural installations, Particularly suitable where the cable is undergone to high abrasion and tear efforts.*

### COSTRUZIONE

#### CABLE STRUCTURE

1. Conduttore flessibile in rame elettrolitico rosso  
*Electrolytic bare copper flexible conductor*
2. Isolamento in gomma reticolata tipo EI6, privo di alogeni  
*Type EI6 halogen-free cross-linked insulation*
3. Guaina in PUR termoplastico (TMPU), privo di alogeni  
*Thermoplastic halogen-free PUR jacket (TMPU)*

Temperatura utilizzo  
*Temperature range*



5 ÷ 90 °C  
-40 ÷ 90 °C  
(@ fixed installation)

Tensione di esercizio  
*Voltage rating*



300/500 V<sub>ac</sub> (H05BQ-F)  
450/750 V<sub>ac</sub> (H07BQ-F)

Tensione di prova  
*Test voltage*



2000 V<sub>ac</sub> (H05BQ-F)  
2500 V<sub>ac</sub> (H07BQ-F)

Temperatura di corto circuito  
*Short-circuit temperature*



250 °C

Esente da alogeni  
*Halogen-free*



EN 50525-1,  
EN 50267-2-2,  
EN 50267-2-1,  
EN 60884-2

Resistenza agli oli  
*Oil resistance*



EN 50363-10-2

Idoneo per uso esterno  
*Suitable for outdoor use*



Idoneo per posa mobile  
*Suitable for mobile installation*



Raggio di curvatura  
*Bending radius*



≥ 8xD (fixed)  
≥ 10xD (mobile)

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Sezione <i>Size conductor</i> [ mm <sup>2</sup> ]	Formazione conduttore <i>Conductor stranding</i> [ N° x mm ]	Resistenza elettrica <i>Electrical resistance</i> [ Ω/Km ]	Diametro su isolamento <i>Diameter on insulation</i> [ mm ]	Spessore di isolamento <i>Radial thickness of insulation</i> [ 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 (H05BQ-F) 2.85 ± 0.1 (H07BQ-F)	≥ 0.60 (H05BQ-F) ≥ 0.80 (H07BQ-F)
1.5	28 x 0.243	≤ 13.3	3.05 ± 0.1	≥ 0.80
2.5	48 x 0.243	≤ 7.98	3.8 ± 0.1	≥ 0.90
4	52 x 0.300	≤ 4.95	4.5 ± 0.1	≥ 1.0
6	80 x 0.300	≤ 3.30	5.25 ± 0.1	≥ 1.0
10	136 x 0.300	≤ 1.91	6.6 ± 0.1	≥ 1.2
16	210 x 0.300	≤ 1.21	7.6 ± 0.1	≥ 1.2

Sezione <i>Size conductor</i> [ mm <sup>2</sup> ]	Diametro esterno <i>Outer diameter</i> [ mm ]	Spessore guaina <i>Thickness of jacket</i> [ mm ]
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H05BQ-F	2 x 0.75	6.2 ± 0.2	≥ 0.8
	3 x 0.75	6.7 ± 0.2	≥ 0.9
	4 x 0.75	7.3 ± 0.2	≥ 0.9
	5 x 0.75	8.3 ± 0.2	≥ 1.0
	2 x 1	6.7 ± 0.2	≥ 0.9
3 x 1	7.1 ± 0.2	≥ 0.9	
4 x 1	7.8 ± 0.2	≥ 0.9	
5 x 1	8.55 ± 0.2	≥ 1.0	

H07BQ-F	2 x 1	7.6 ± 0.2	≥ 0.9
	3 x 1	8.1 ± 0.2	≥ 0.9
	4 x 1	9.0 ± 0.2	≥ 1.0
	5 x 1	10.1 ± 0.3	≥ 1.1
	2 x 1.5	8.1 ± 0.2	≥ 1.0
3 x 1.5	8.6 ± 0.2	≥ 1.0	
4 x 1.5	9.6 ± 0.2	≥ 1.1	
5 x 1.5	10.5 ± 0.3	≥ 1.1	

H07BQ-F	2 x 1.5	8.1 ± 0.2	≥ 1.0
	3 x 1.5	8.6 ± 0.2	≥ 1.0
	4 x 1.5	9.6 ± 0.2	≥ 1.1
	5 x 1.5	10.5 ± 0.3	≥ 1.1
	2 x 2.5	9.8 ± 0.2	≥ 1.1
3 x 2.5	10.4 ± 0.3	≥ 1.1	
4 x 2.5	11.6 ± 0.3	≥ 1.2	
5 x 2.5	12.9 ± 0.3	≥ 1.3	

Sezione <i>Size conductor</i> [ mm <sup>2</sup> ]	Diametro esterno <i>Outer diameter</i> [ mm ]	Spessore guaina <i>Thickness of jacket</i> [ mm ]
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H07BQ-F	2 x 4	11.4 ± 0.3	≥ 1.2
	3 x 4	12.2 ± 0.3	≥ 1.2
	4 x 4	13.5 ± 0.3	≥ 1.3
	5 x 4	15.0 ± 0.3	≥ 1.4
	2 x 6	13.1 ± 0.3	≥ 1.3
3 x 6	14.2 ± 0.3	≥ 1.4	
4 x 6	15.7 ± 0.3	≥ 1.5	
5 x 6	17.4 ± 0.3	≥ 1.6	

H07BQ-F	2 x 10	17.4 ± 0.3	≥ 2.0
	3 x 10	18.7 ± 0.3	≥ 2.1
	4 x 10	20.5 ± 0.3	≥ 2.2
	5 x 10	22.6 ± 0.3	≥ 2.3
	2 x 16	19.6 ± 0.3	≥ 2.1
3 x 16	21.3 ± 0.3	≥ 2.3	
4 x 16	23.0 ± 0.3	≥ 2.3	
5 x 16	25.8 ± 0.3	≥ 2.5	

H07BQ-F	2 x 16	19.6 ± 0.3	≥ 2.1
	3 x 16	21.3 ± 0.3	≥ 2.3
	4 x 16	23.0 ± 0.3	≥ 2.3
	5 x 16	25.8 ± 0.3	≥ 2.5
	2 x 2.5	9.8 ± 0.2	≥ 1.1
3 x 2.5	10.4 ± 0.3	≥ 1.1	
4 x 2.5	11.6 ± 0.3	≥ 1.2	
5 x 2.5	12.9 ± 0.3	≥ 1.3	

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Riferimento normativo <i>Standard reference</i>	EN 50525-2-21, Direttiva Europea Bassa Tensione No. 2014/35/UE. Certificato IMQ-HAR No. CA01.00615 (H05BQ-F), CA01.00616 (H07BQ-F) <i>EN 50525-2-21, Low Voltage European Directive No. 2014/35/EU. IMQ-HAR approvals Nos. CA01.00615 (H05BQ-F), CA01.00616 (H07BQ-F)</i>
Conduttore <i>Stranding of conductor</i>	Conduttore flessibile in classe 5 in rame rosso elettrolitico, conforme alla norma IEC 60228 <i>Class 5 electrolytic bare copper flexible conductor conforming to IEC 60228 standard</i>
Isolamento <i>Insulation</i>	Mescola elastomerica reticolata tipo EI6 conforme alla norma EN 50363-1, priva di alogeni <i>EI6 type halogen-free cross-linked elastomeric compound complies with EN 50363-1</i>
Riunitura <i>Cable assembly</i>	Le anime saranno trecciate insieme, se necessario, attorno ad un riempitivo centrale in filato. <i>The inner cores will be twisted together, if necessary, around a textile central filler</i>
Colore isolamento <i>Color of insulation</i>	In conformità con i requisiti della norma HD 308 <i>In compliance with requirements of HD 308 standard</i>
Guaina esterna <i>Outer sheath</i>	Mescola di poliuretano termoplastico tipo TMPU, conforme alla norma EN 50363-10-2, privo di alogeni. <i>TMPU type thermoplastic halogen-free polyurethane compound, complies with EN 50363-10-2 standard.</i>
Colore guaina <i>Color of sheath</i>	Arancione (simile a RAL 2003) <i>Orange (similar to RAL 2003)</i>
Marcatura a getto di inchiostro <i>Ink-jet marking</i>	SALCAVI SPA - ITALY IEMMEQU-HAR H05BQ-F/H07BQ-F No. DI CONDUTTORI X SEZIONE - ANNO <i>SALCAVI SPA - ITALY IEMMEQU-HAR H05BQ-F/H07BQ-F No. OF CONDUCTORS X SIZE - YEAR</i>

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