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Cavi energia H05BQ-F ed H07BQ-F LOW FRICTION Power cables H05BQ-F and H07BQ-F LOW FRICTION



SCHEMATIC DRAWINGS



APPLICAZIONI APPLICATIONS

Idonei per installazioni in ambienti umidi o bagnati (AD6 e AD7), ambienti marini, uso esterno e per collegamenti soggetti a sollecitazioni meccaniche medie come : apparecchiature in officine industriali e agricole, utensili elettrici, cantieri edili ed impianti agricoli. Il loro basso coefficiente di attrito li rendono particolarmente adatti a movimentazioni, anche in passaggi obbligati.

Suitable for installation in wet or humid places (AD6 or AD7), marine environment, outdoor uses and for interconnection where medium mechanical injuries could occur : equipment for industrial and agricultural workshops, power tools in building-yard and agricultural installations. Their low friction coefficient makes them mostly suitable for moving application, even in constricted and tight passages.

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) mattato a basso coefficiente di attrito, privo di alogeni
Matt-finished with low friction coefficient halogen-free thermoplastic PUR (TMPU) outer sheath

Temperatura utilizzo
Temperature range



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

Tensione di esercizio
Voltage rating



300/500 V_{AC} (H05BQ-F)
450/750 V_{AC} (H07BQ-F)

Tensione di prova
Test voltage



2000 V_{AC} (H05BQ-F)
2500 V_{AC} (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 ambienti marini
Suitable for marine environment



Idoneo per posa mobile
Suitable for mobile installation



Raggio di curvatura
Bending radius



≥ 8xD (fixed)
≥ 10xD (mobile)

Basso coefficiente di attrito
Low friction coefficient





**SALCAVI
INDUSTRIE**

TECHNICAL DATA SHEET



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Sezione <i>Size conductor</i> [mm ²]	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 ²]	Diametro esterno <i>Outer diameter</i> [mm]	Spessore guaina <i>Thickness of jacket</i> [mm]	
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	
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 ²]	Diametro esterno <i>Outer diameter</i> [mm]	Spessore guaina <i>Thickness of jacket</i> [mm]	
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	
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	

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Al fine di perfezionare i nostri prodotti, le informazioni contenute in questa scheda possono essere variate senza preavviso. Pregiamo verificare con i ns. uffici la data e il numero di revisione.
In order to improve our products, the information contained in this technical data sheet can be changed without notice. Please check periodically with our offices date and number of the revision.



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Riferimento normativo <i>Standard reference</i>	EN 50525-2-21, Direttiva Europea Bassa Tensione No. 2014/35/UE. Certificato IMG-HAR No. CA01.00615 (H05BQ-F), CA01.00616 (H07BQ-F) <i>EN 50525-2-21, Low Voltage European Directive No. 2014/35/EU. IMG-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 E16 conforme alla norma EN 50363-1, priva di alogeni <i>E16 type halogen-free cross-linked elastomeric compound complying 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 (TMPU) mattato a basso coefficiente di attrito, conforme alla norma EN 50363-10-2, privo di alogeni <i>Matt-finished and low friction coefficient thermoplastic halogen-free polyurethane compound, (TMPU) complies with EN 50363-10-2 standard</i>
Colore guaina <i>Color of sheath</i>	Su richiesta del cliente. <i>On customer's request</i>
Marcatura a getto di inchiostro <i>Ink-jet marking</i>	SALCAVI SPA ITALY - IEMMEQU-HAR HOXBQ-F N° CONDUTTORI X SEZIONE LOW FRICTION - ANNO SALCAVI SPA ITALY - IEMMEQU-HAR HOXBQ-F N° CONDUCTORS X SIZE LOW FRICTION - YEAR