



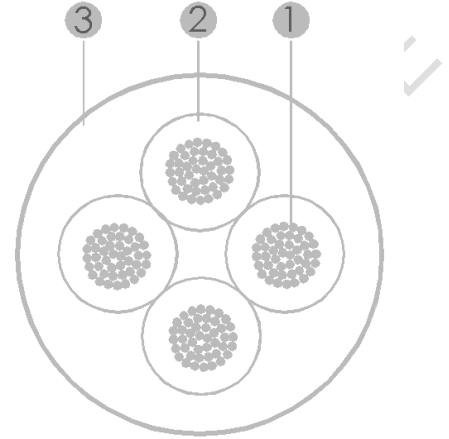
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# TECHNICAL DATA SHEET



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## Cavo di energia ARCTIC FLEX H03VV-F/H05VV-F Power cable ARCTIC FLEX H03VV-F/H05VV-F



### SCHEMATIC DRAWINGS



### APPLICAZIONI APPLICATIONS

Idonei per tutte le installazioni ove si richieda una buona flessibilità sino a bassissime temperature, e quindi anche idoneità all'uso esterno ed ai climi freddi del Nord Europa, oltre ad un'ottima flessibilità a temperatura ambiente. Non idonei per posa mobile continuativa od applicazioni che prevedano medie o forti sollecitazioni meccaniche. Idonei per lavorazioni di spelatura e sguainatura con macchine automatiche.

*They are intended for installations where a good flexibility up to very low temperature is required, and consequently even a suitability for outdoor applications and for harsh winter of North Europe countries, in addition to an excellent flexibility at normal temperature. They are not suitable for either continuous movements or for applications where moderate or severe mechanical stress could occur. They are suggested for automated cutting/stripping machineries.*

### COSTRUZIONE

#### CABLE STRUCTURE

1. Conduttore flessibile in rame elettrolitico rosso  
*Electrolytic bare copper flexible conductor*
2. Isolamento in PVC T12 e T14  
*T12 and T14 PVC insulation*
3. Guaina in PVC TM2 e TM4, colore verde RAL 6002.  
*TM2 and TM4 PVC outer sheath, green RAL 6002 color.*

Temperatura utilizzo  
*Temperature range*



-40 ÷ 70 °C  
[ @ fixed installation ]  
-20 ÷ 70 °C  
[ for moving installation ]

Tensione di esercizio  
*Voltage rating*



300/300 V<sub>ac</sub> (H03VV-F)  
300/500 V<sub>ac</sub> (H05VV-F)

Tensione di prova  
*Test voltage*



2000 V<sub>ac</sub> (H03VV-F)  
2500 V<sub>ac</sub> (H05VV-F)

Idoneo per posa mobile  
*Suitable for moving installation*



Only for free movement  
without loads or  
mechanical abuses

Temperatura di corto circuito  
*Short-circuit temperature*



160 °C

Resistenza alla fiamma  
*Flame resistance*



IEC 60332-1-2

Raggio di curvatura  
*Bending radius*



≥ 4 x D @ 20°C  
[ @ fixed installation ]  
≥ 6 x D @ 20°C  
[ @ fixed installation ]

Idoneo per uso esterno  
*Suitable for outdoor use*



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Sezione Size conductor [ mm <sup>2</sup> ]	Formazione conduttore Conductor stranding [ N° x mm ]	Resistenza elettrica Electrical resistance [ Ω/Km ]	Diametro su isolamento Diameter on insulation [ mm ]	Spessore di isolamento Radial thickness of insulation [ mm ]
0.50	16 x 0.193	≤ 39.0	1.88 ± 0.1	≥ 0.50
0.75	24 x 0.193	≤ 26.0	2.08 ± 0.1 ( H03VV-F ) 2.33 ± 0.1 ( H05VV-F )	≥ 0.50 ( H03VV-F ) ≥ 0.60 ( H05VV-F )
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

Sezione Size conductor [ mm <sup>2</sup> ]	Diametro esterno Outer diameter [ mm ]	Spessore guaina Thickness of jacket [ mm ]
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H03VV-F	2 x 0.50	4.9 ± 0.2	≥ 0.60
	3 x 0.50	5.1 ± 0.2	≥ 0.60
	4 x 0.50	5.7 ± 0.2	≥ 0.60

H05VV-F	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

H05VV-F	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

H05VV-F	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 ± 0.3	≥ 1.1

Sezione Size conductor [ mm <sup>2</sup> ]	Diametro esterno Outer diameter [ mm ]	Spessore guaina Thickness of jacket [ mm ]
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H03VV-F	2 x 0.75	5.3 ± 0.2	≥ 0.60
	3 x 0.75	5.6 ± 0.2	≥ 0.60
	4 x 0.75	6.3 ± 0.2	≥ 0.60

H05VV-F	2 x 2.5	9.3 ± 0.2	≥ 1.0
	3 x 2.5	10.0 ± 0.3	≥ 1.1
	4 x 2.5	10.75 ± 0.3	≥ 1.1
	5 x 2.5	12.3 ± 0.3	≥ 1.2

H05VV-F	2 x 4	10.6 ± 0.3	≥ 1.1
	3 x 4	11.3 ± 0.3	≥ 1.2
	4 x 4	12.4 ± 0.3	≥ 1.2
	5 x 4	14.0 ± 0.3	≥ 1.4

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Riferimento normativo <i>Standard reference</i>	EN 50525-2-11, Direttiva Europea Bassa Tensione No. 2014/35/UE Certificati IMQ-HAR No. A0643 e A0644 <i>EN 50525-2-11, Low Voltage European Directive No. 2014/35/EU IMQ-HAR licenses No. A0643 and A0644</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 flexible copper conductor conforming to IEC 60228 standard</i>
Isolamento <i>Insulation</i>	PVC T12 e T14 conforme alla norma EN 50363-3, durezza : [ 86 ± 2 ] Sh-A <i>T12 and T14 PVC conforming to EN 50363-3 standard, hardness : [ 86 ± 2 ] Sh-A</i>
Riunitura <i>Cable assembly</i>	Le anime sono trecciate insieme, se necessario, attorno ad un riempitivo centrale in PVC. <i>The cores are twisted together, if it's necessary, around a central PVC filler.</i>
Colore isolamento <i>Color of insulation</i>	In conformità con i requisiti della norma HD 308 S2 <i>In compliance with requirements of HD 308 S2 standard</i>
Guaina esterna <i>Outer sheath</i>	PVC TM2 e TM4 conforme alla norma EN 50363-4-1, durezza : [ 68 ± 2 ] Sh-A <i>TM2 and TM4 PVC conforming to EN 50363-4-1 standard, hardness : [ 68 ± 2 ] Sh-A</i>
Colore guaina <i>Color of sheath</i>	Verde RAL 6002 <i>Green RAL 6002</i>
Marcatura <i>Marking</i>	SALCAVI SPA - ITALY IEMMEQU - HAR H03VV-F o H05VV-F ARCTIC FLEX CABLE SS/AA <i>SALCAVI SPA - ITALY IEMMEQU - HAR H03VV-F or H05VV-F ARCTIC FLEX CABLE WW/YY</i>

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