				Specifica Tecnica Cavi a Catalogo Approvati Technical Sheet Catalogue Cables Approved					
		UNI EN IS			5				
		31 MAGGI	D 1996	Regolamenti D	irettive Particolarità	Regulations Directive	s Particularities		
		l. 			DHS REACH	Halogen Free	LOW SMOKE		
HIGH TEMPI	ERATURE	WWW.DI	<u>r.it</u> - <u>bir@bir.it</u>	com	pliant compliant	CEI-EN 50267 (LSOH)	CEI-EN 61034		
SIGLA DEL O	COSTRUTTORE	E PRO	DUCER ACRONYM	_	APPR	OVAZIONI A	PPROVALS		
SilHSil	F					VDE	Reg. Nr. 7610		
CAVO UNIPO SINGLE COR	LARE CON C E CABLE WIT	ONDUTTO H FLEXIB	RE FLESSIBILE I	SOLATO IN GOMM	A SILICONE CON DOI	PPIO STRATO ISOLA DUBLE INSULATOR L	NTE AYERS		
					Ap	pprovazioni e Norme			
Co	onduttore	1° Isolan	te 2° Isolan	te	Approvals and Standards				
	onductor	i insulat		0I	DIN VDE 0250 Teil 1				
•	•		•	019	Prodotto con	certificazione VDE N.	133020		
8					Cable constructed in compliance with the standard:				
01-]	DIN VDE 0250 Teil 1	400000		
					Product with \ N° RECO	VDE certification VDE N. RDING VDF Reg. 7	133020 610		
TENSIONE	TENSIONE		TENSIONE						
NOMINALE	Inl	H₂ O	IMPULSIVA FINO A	DI ESERCIZIO	CONDUTTORE IN RAME	STAGNATO FLESSIBILE			
WORKING	TEST VO	DLTAGE	IMPULSIVE	TEMPERATURE	CLASSE 5	NORMA	EN 60228		
VOLTAGE	In H	20	VOLTAGE Up To	RANGE					
300/300	V 100	V00	5kV-Imp.	180°C	FLEXIBLE CONDUCTOR CLASS 5	MADE OF TINNED COAT STANDAF	ED COPPER D EN 60228		
TABELLE DI INF	ORMAZIONE G	ENERALE D	ISPONIBILI On-Line	STAMPIGLIATURA SU CAVO					
TABLES WITH	GENERAL INFO	RMATION A	VAILABLE On-Line	MARKING ON CABLE					
CONDUCTOR	COL	ORI	CONFEZIONE	INFEZIONE SILHSIL F 300/300V - B L F CLEMI - VDE - REG. NR.7610 - YYYY- <u>WWW.BLF.IT-MADE</u> IN ITALY					
				COLORE STANDARD PER PRIMO ISOLAMENTO : ROSSO MATTONE					
1009	10	05	1002-1003	STANDARD COLOUR FO	OR 1° INSULATOR : RE	ED BRICK			
I due strati iso Su richiesta è The two insul On request it	olanti debbor è possibile al lation layers is possible te	no essere lestire il p must com o make th	obbligatoriamen rodotto con i due pulsorily be diffe e product with tv	te di colore diverso strati isolanti sepa rently coloured and vo divisible insulati	o e, nella versione sta arabili. d, in the standard vers on layers.	indard, non sono se sion, are not divisib	parabili. Ie.		
VEDERE RACC	COMANDAZION ENDATIONS FO	I PER L'US DR USE AN	o ed informazioi D additional info	NI AGGIUNTIVE SUL F DRMATION ON THE B	ETRO DI QUESTO DOCL ACK SIDE OF THIS DOCU	JMENTO JMENT			
Caratteristiche Dimensionali Dimensional			Characteristics	Caratteristiche Elettrich in rame stagnato. Vedi					
CONDUTTO	CONDUTTORE CONDUCTOR		ISOLANTE INSULATION		Electrical Characteristics conductor				
Sezione	Formazione	Diametro	Spess. Isolante	ÆEsterno	Resistenza max@20°	C (I) MAX 20°C	Peso		
Section	Composition	Diameter	Insulat. Thickn.	External Æ	Resistance max@20°	C ΔT +50°	Weight		
(mm²)	[n° x Æ(mm)]	(mm)	(mm)	(mm)	(ohm/Km)	Ampere	(kg/km)		
0,50	16x0,20	0,90	0,60 + 0,60	3,35	40,10	12,00	18,00		
0,75	24x0,20	1,20	0,60 + 0,60	3,70	26,70	15,00	22,00		
1,00	32x0,20	1,30	0,60 + 0,60	3,80	20,00	17,00	24,00		
1,50	30x0,25	1,60	0,70 + 0,70	4,50	13,70	23,00	35,00		
2,50	50x0,25	2,00	0,80 + 0,80	5,30	8,21	33,00	42,00		
				·					

Data Emissione	30/10/2000	Indice Modifica	12	Data Modifica	08/10/2015		0		т
Redatto SETP	luca Mercali	Verificato SEP	Jaconfri Jaca	Approvato DIG		•		-	0
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BLF S.r.I. PARTICULARITIES-PERFORMANCES AND PF	BACK SIDE OF TECHNICAL SP RECAUTIONS-RECCOMENDATIO	ECIFICATION C077 I NS FOR USE-CE MARKI	<u>m: 12</u> NG-GUARANTEES- EX/	AMINATONS AND INSP	ECTIONS
The product on this technical chest event	for different instructions determ	102 - PARTICULARITIES	<u>)</u> declaione is insulate	d with EIO to me filled a	lloope where compound
having the following requirements:	1 47 + 0 02	Dielectric Strength	kV/mm 15	Tear strength	min N/mm 14
Elongation min. Original conditio Tensile strength N/mm ² min. Original co	n 200% ndition 5	After Ageing After Ageing	10 days 200°C 10 days 200°C N/mr	120% n ² 4	
Tests and inspections are made with refere	nce to the Norms CEI-EN	000 - GENERALITIES	5		
PERFORMANCES (Silicon rubber insulation The silicone rubber insulated cables, further to gi Oxygen, Artificial Light, Atmospheric Agents etc. elasticity (ASTM 2137A). If this temperature is or The performances of this cable, the norms applie On it are also indicated possible Certifications (C <u>PRECAUTIONS AND RECCOMENDATIONS US</u> In order to grant obtaining performances it is nect of the conductor, without ignoring the increase of correct dimensioning of the cable is given in Table It is also necessary to use all precautions agains] with sharp surfaces). These precautions have to b be easily damaged. Choosing a silicone rubber i and so it can contribute to the security in the long It is a good norm to respect the minimum bend ra Minimum bend radius (EN-50565) : 15 The cable must not be installed directly buried ou This may cause breaking of the conductors and fi In case of use on moving equipments it is neces Warning: It must be taken into consideration tha silicone rubber insulator and the conductor may si there will be no oxidation of the conductor and si HARMFUL SUBSTANCES FOR THE LECTING The contact between the electric insulator and su harmful from the producers of rubber: hydroc) ving high performances in environr resistance, as well as good behavior vercame rubber looses gradually it d during designing and construction Quality Marks) and the references of <u>SE</u> essary that the cable is dimensioner resistivity of the conductor itself in le TOO9 made by BLF and available trisks of mechanical damages of the peapplied in any case, but in partici- nsulated cable, protected with a te term of the equipment in which the dili and not to submit the cable to tr able with diameter until 12 mm 4 N for each sq. mm. of section tdoors and beneath plaster coats, a collowing outgoing of the same from ssary to choose products right for th thigh temperatures (higher than 18 tick together without compromising cking to the insulator. Still at high <u>CINSULATOR</u>	<u>ouv - GENERALITIES</u> ments with high temperatu our at low temperatures; s elastic characteristics. n, the construction charact f the Certificate, that can b ed in the correct way takin, case of a temperature that e on the website: <u>www.b</u> e insulator during handling ular if the insulator is made actile impregnated braid, e cable is used. action stresses that can da times the cable diameter i as also cables made for sti- n the insulator with the risk he purpose, determining th 0°C) can cause the oxidat the insulation characteris temperatures in the version operties must be avoided.	res, have got also other of Until -50°C the silic The breaking temper eristics are those indicate e found also on the webs g care of checking that the t is higher than the temper <u>f.it</u> , wiring and installation (e up of silicone rubber co c can be a valid help in pr amage the product. Value i in static installation must not l of short circuit. em in advance with our T ion of the conductors if ir tics of the cable. Using co n coated with textile impr In particular, for silicone ol, oil, diesel oil, butanol,	good qualities : halogen f one rubber maintains its rature is -73°C. (ASTM I ed on the front side of thi site: www.blf.it. ee charge applied compli- erature of the environmer ravoid torsions, abrasions mpound that, for its own eventing risks of damagi es not to be exceeded an- times the cable diameter be used on moving equip rechnical Department. n bare or tinned copper. I onductors in Nickel Coate regnated braid the colour e rubber the following sub perchlorethylene.	ree, excellent UV, Ozone, characteristics of 02137A). s document. es with the section it. A help for the s, rubbings, contacts nature is soft and so can ng the insulator e: if in non static installation ments. n some case the ed copper, may change. stances are indicated as
EMISSIONS - CLASSIFICATION OF THE PRO Tests, that are carried out in certified laboratorie: - ABSENCE OF HALOGENS (LSOH) - LOW DEGREE OF ACIDITY - LOW EMISSION OF TOXIC SMOKES AI Even if in very small quantity (lower than 0,1% fo used for the vulcanization process, remain prese on the surface. Should the total absence of emis	DUCT s, allow us to state, for our silicone Test according t Test according t ND GASES Test according t und in the test), some remains of vu nt. They are released during the firs sions be required, an appropriate p	insulated cables, with or w o the Norm CEI-EN 5020 o the Norm CEI-EN 5020 o the Norm CEI-EN 5020 o the Norm CEI-EN 6100 ulcanization, namely of the st heating of the cable or a iost-vulcanization cycle mu	ithout fiberglass braid or 57-2-1 57-2-2 24-2 2 catalyser "Dichlorine Be t room temperature in a l ust be considered.	r polyester protection, the nzoil Peroxide containin onger lapse of time, relea	e following classifications: g 2,4 Dichlorbenzoic Acid", that is asing in some cases a white patina
Our Technical Department can give, on demand, <u>HANDLING OF THE PRODUCT</u> The possible presence of remains of the vulcaniz	detailed information. ation can be cause of cutaneous irr	ritation if in contact with the	e product.		
You are advised to handle with adequate protecti HARMFUL SUBSTANCES ABSENT IN THE CA	ons, if necessary in that situation. BLE and DECLARATION accordi	ing to Directives 2011/65	/UE - 1907/2006		
BLF cables do not contain any toxic or harmful st * PBB; * PBDE; * Deca BDE; * Lead; * Mercury; (* Maximum percentage allowed by weight for h In the light of our current knowledge, on the basis External Certified Laboratories, we can state that - 2011/65/UE - RoHS - Reg; - 1907/2006 - REACH - Reg; - 1272/2008 - Reg; - 2000/53/EC - ELV - Reg;	Ibstances introduced on purpose. T * Chrome VI, *DEHP, *BBP, *DBI omogeneous material 0,1% =1000, s of our documentation and also on our products basically comply with arding Restrictions of the use of ce istration, Evaluation and Authorisati arding packaging and labelling of d arding End of life vehicles	The following substances a P, *DIBP: ** Cadmium: PF ppm ** Maximum pero the basis of periodical and the requirements of the fo ritain hazardous substances ion of Chemicals langerous substances	re absent, in the limits of OS; and the substances centage allowed by weigh alysis in order to test the e illowing standards/directi es in electrical and electro	what prescribed by the 2 prohibited by the REACI <i>tor homogeneous mate</i> conformity with RoHS an ves/regulations: onic equipment	2011/65/UE RoHS directive: H regulation. <i>rial 0,01% = 100 ppm)</i> d REACH, made in
- 2012/19/UE - WEEE - Han BLF's position towards the REACH Regulation is recurrent monitoring of possible changes to the	dling of Waste of Electrical and Electrical and Electrical and Electrical and the process of the second state of the second st	ctronic Equipment osition BLF must not effect be "candidate list"	t the Registration of Sub	stances or Preparations.	BLF assures also
For the electric cables no Security Sheet is m DECLARATION OF CONFORMITY AND CE MA	ade. The regulations in forc	e <u>do not provide</u> for it. (R	egulation REACH 1907/2	2006-453/2010).	
Every supply is given with "Declaration of Confor In case of approved products also the logo of the According to the Directive 2014/35/EU, the CE mark	mity" to this Technical Sheet. If the approver authority and the number ing is not to be applied for cables with	current laws in Italy provid of the certificate are indic Working Voltage lower that	le for it, on the identificati ated. n 50V and higher than 100	on labels of the products 0V AC or lower than 75V a	the "CE" logo appears.
CE marking is omitted on special cables made or In these cases the customer is responsible for the In case the product is exported out of the Europe	n demand, where the dimensioning e employment of the product in safe an Community area. CE marking is	of the product is defined b ety conditions.	y the Customer and with	out information about ele	ctric performances.
GUARANTEES - EXAMINATIONS AND INSPE During designing, the National or International No	CTIONS prms quoted on the front side of this	document are applied, as	s far as possible. If believ	ed as appropriate, the pr	oducts are approved by
and laboratory tests. In case of products made without specific regula	2 - IMQ HAR- VDE- UL - CSA etc.)	de respecting the general	ce with the requirements current regulations, and h	nomologation tests are m	ade in BLF's laboratory.
All the products made undergo examinations and by BLF for at least two years. The outgoing prod All electric cables are tested electrically 100% (sp Interruptions are indicated with an appropriate lab	tests in order to grant corresponde ucts are checked dimensionally on park tester) both on the extrusion li	ance with the established r 100% of the final reels. ne and during conclusive	equirements. Every fina packaging. Possible imp	I reel is seriated and a spectron of the series of the ser	decimen is kept,
Furthermore, methodically, laboratory tests, as pl components used. The laboratory tests are made	anned in the Quality Handbook and in accordance with the norms of re	d relevant Procedures are eference. As example we I	made, in order to check ist the most common test	the behaviour of the proc ts on cables and relevant	luct and of the norms:
Elongation and Tensile Strength	Original condition and after a	ageing	CEI-EN 60811 CEI-EN 50305		
Dielectric strength test Flame test	Original condition Original condition		CEI-EN 50395 CEI-EN 50395 CEI-EN 60332-1-	2	
Flexibility test Other tests are made when provided from the not	Original condition rms of construction or the terms of t	the contract.	CEI-EN 50396	-	