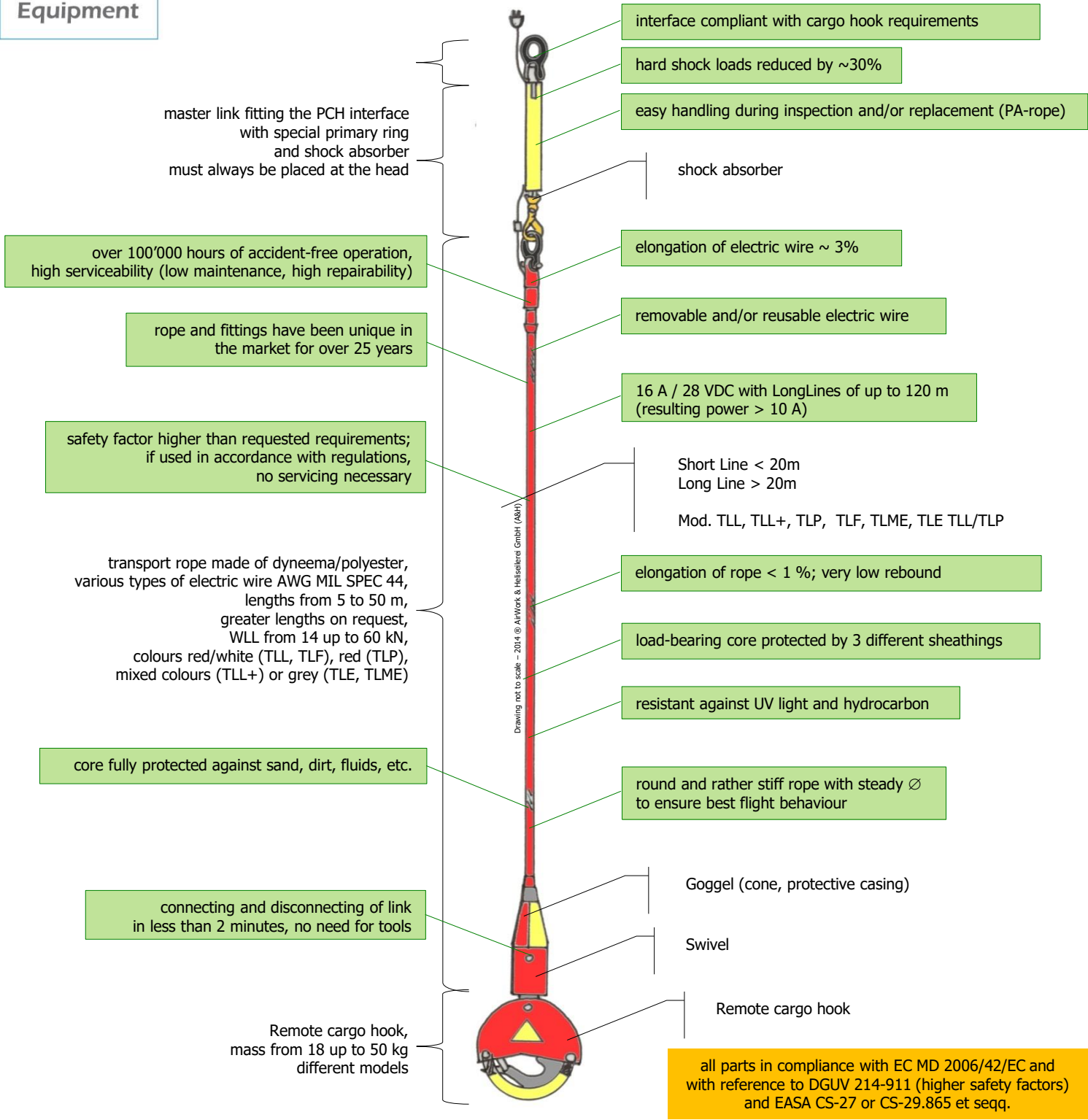


General overview: Short and LongLines with electrical handling



TLL, TLP or combined TLL/TLP rope models are the result of over 20 years of experience and meet the highest safety requirements in accordance with EU Directive 2006/42/EC, EASA CS-27./29.865, different harmonised EN Standards, DGUV Information 214-911 «Safety during Helicopter External Load Operations», annex 3 - NATO STANAG 3542

Basic KSL for TLL, TLL+, TLP, TLF, TLME, TLE Änderungen (Historie): B und C: «Offer pos.» angepasst; D: diverse Schriftkorrekturen <small>Für dieses Dokument behalten wir uns alle Rechte vor. Ohne unsere ausdrückliche und schriftliche Zustimmung darf es weder dritten Personen mitgeteilt, noch missbräuchlich kopiert oder anderweitig benutzt werden.</small> <small>VOR_02_Form-A4.E, FC 111003ER LM 130828ER Printdate 13.08.2020</small>			Blatt Nr: 1	Blatt Anzahl: 3	A4	
			gezeichnet	10.02.2019	ER	Zeichn.-Typ
			geändert	18.05.2019	ER	BGZ
			geprüft	20.05.2019	MS	INDEX
		freigegeben	20.05.2019	ER	D	
DB Ropes-electric_KSL_D					MS n/a	

Offer items and details (part number, WLL, size, length, colour)

Type of helicopter: _____, WLL _____, Customer (KZK): _____, AD: _____

encircle your choice **10**
or we mark our offer **10**

**DB Special fittings
DB PCH fittings Airbus**

**DB Shock absorber
A&H_SB-2013-1
Shock absorber**

DB SL-LL

DB TM

P/N:	WLL 10	14	20	30	40	50	60 kN
AW	13	13					
AM_KAU_	H135-M	H135-M	H145-M	i)	MIL	MIL	MIL

> i) on request. Please indicate your primary cargo hook model and size!

> _____

VM-DP_	10	14	20	30	40	50	60_1.5
VM-DP_	--	14	20	30	40	50	60_1.5L

- > 1.5 is the standard length; L indicates «for Logging» (HESLO 3)
- > All shock absorbers are equipped with protective sheathing and standard grade 10 fittings. Other fittings on request.

Example: TLP_50_50 (WLL 50 kN, length 50 m; the colour would be red)

	10	14	20	30	40	50	60	Colour
TLL_	10	14	20	30	40	50	--	R/W
TLL+_	--	14	20	30	--	50	--	R/W
TLP_	10	14	20	30	40	50	--	R
TLF_	--	14	20	30	40	50	--	W/R
TLME_	10	14	20	30	40	50	60	R
TLE_	10	14	20	30	40	50	60	GR or R

First select type, then length and type of rope end finish (see next page).
Colour codes: red (R), red-white (R/W), grey (GR)

- > _____
- > _____
- > For various designs of rope ends (thimbled and/or with cast end) see next page
- > Ropes exceeding 50 m and/or other WLL on request

Protective casing (mounted onto the lower part of cast rope end)

VM-GO_	>	20	20	>	>	50	--
--------	---	----	----	---	---	----	----

Swivel (mounted onto remote cargo hook)

VM_DG_	>	20	20	>	>	50	--
--------	---	----	----	---	---	----	----

Remote cargo hook

TM_	301	601	601	i)	901	LH60	LH60
-----	-----	-----	-----	----	-----	------	------

- > Other remote cargo hooks on request

Offer item _____

Offer item _____

Offer item _____

Offer item _____

Offer item _____
various options

Basic KSL for TLL, TLL+, TLP, TLF, TLME, TLE

Änderungen (Historie): B und C: «Offer pos.» angepasst; D: diverse
Schriftkorrekturen

Blatt Nr: 2

Blatt Anzahl: 3

A4

gezeichnet

10.02.2019

ER

Zeichn.-Typ

geändert

18.05.2019

ER

BGZ

geprüft

20.05.2019

MS

INDEX

freigegeben

20.05.2019

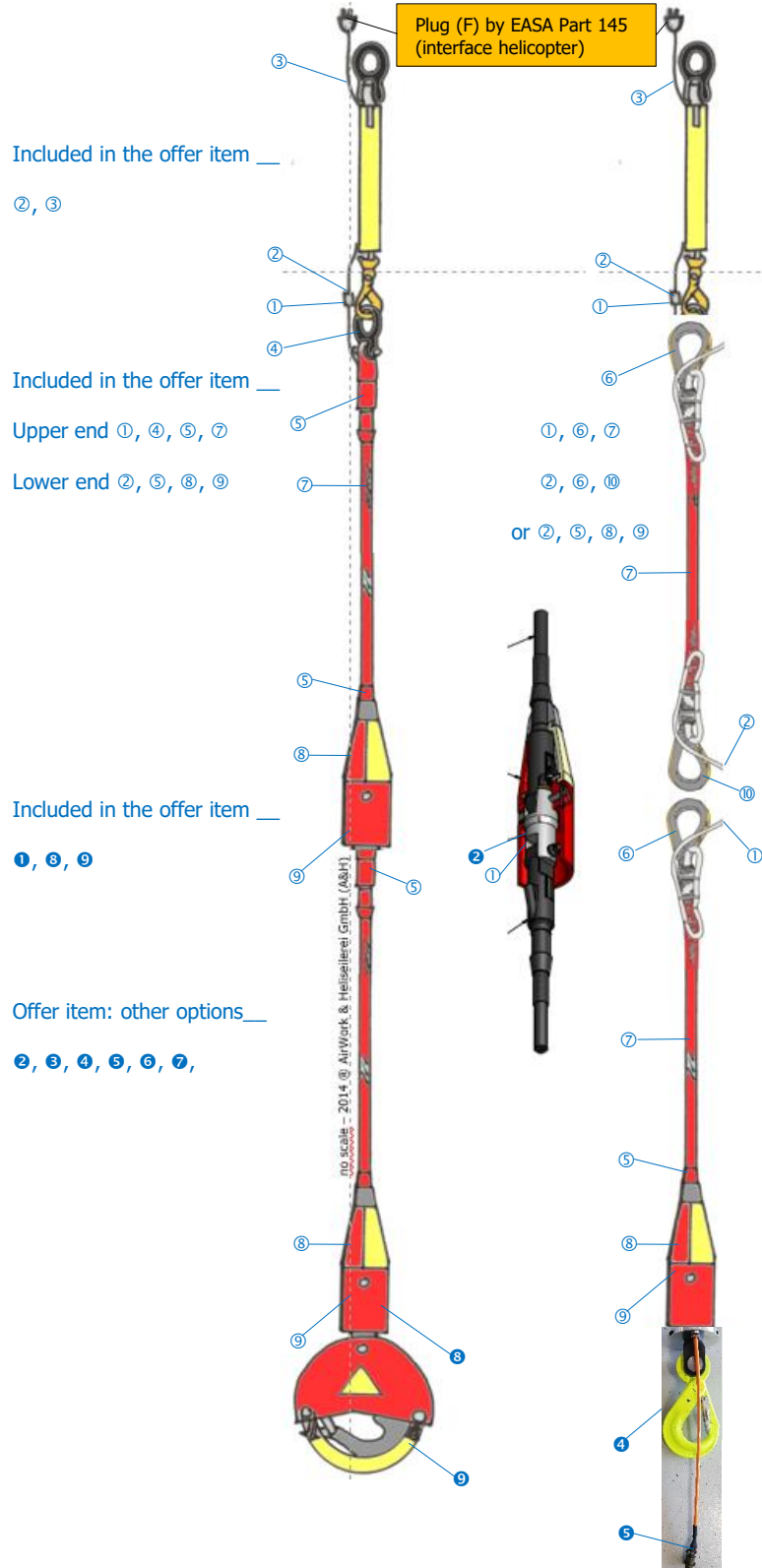
ER

D

Offer items and details for other options (extensions, protection, plugs)

Type of helicopter: _____, WLL _____, Customer (KZK): _____, AD: _____

encircle your choice **10**
or we mark our offer **10**



- ① robust plugs and
- ② sockets with 4 pins (or on customers' wishes),
- ③ electric spiral cable 3 x or 4 x 1.5 mm² / 2.0 mm² / 2.5 mm²



- ④ upper end fitting



- ⑤ cast rope end with fitting (available for TLL, TLL+, TLP, TLF), or
- ⑥ thimble rope end (available for all kind of ropes)



- ⑦ electric wire AWG16 (4 x 1.25 mm²) or AWG16 (9 x 1.25 mm² for TLF) or AWG14 (4 x 2.0 mm²); other types of electric wires on request



- ⑧ protective casing: VM-GO_x
- ⑨ protective prop inside casing: VM_GO_x_STA



- ⑩ connecting links and safety hook



- ① protective casing: VM-DG_x_Pro

- ② connector for 2 ropes with cast ends (with protective casing on upper rope): VM-VL_x_xx



- ③ protective casing for connector; VM-VL_x_xx_Pro



- ④ extension for firefighting bucket: VM-VL_x_BB

- ⑤ special socket for firefighting bucket: E-STE_xx



- ⑥ protective casing for extension: VM-VL_x_BB_Pro

- ⑦ transport and storage bag for ropes



- ⑧ electric swivel VM-DG_x



- ⑨ remote cargo hook TM-X_x

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	Blatt Nr: 2	Blatt Anzahl: 3		Zeichn.-Typ
	gezeichnet	10.02.2019	ER	BGZ
	geändert	18.05.2019	ER	INDEX D
	geprüft	20.05.2019	MS	
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