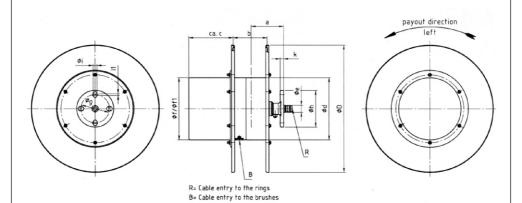
4.1 SPRING DRIVEN CABLE REELS

Type Series	Drawing No.	Ød	ØD	a	b	Øe	Øf	Øf1	Øg	Øh	Øi	i1	k
LT155	01-95-00-0-3	155	260	101	110	35	155		65	85	4 x Ø 9		5
LT180	01-95-00-0-3	180	300	109	130	35	180	-	65	85	4xØ9		5
LT220	01-95-00-0-3	220	400	114	120	35	220		100	130	4 x Ø 13	6	12
LT221	01-95-00-0-3	220	450	129	150	35	220	-	100	130	4 x Ø 13	6	12
LT222	01-95-00-0-3	220	450	139	170	35	220		100	130	4 x Ø 13	6	12
LT300	01-95-00-0-3	300	550	165	190	50	300		100	135	4 x Ø 13	5	20
LT301	01-95-00-0-3	300	550	213	285	50	300		100	135	4 x Ø 13	5	20
LT420	01-95-00-0-3	420	680	200	240	60	420		135	178	4 x Ø 17	5	20
LT421	01-95-00-0-3	420	770	200	240	60	420		175	215	4 x Ø 17	5	20
LT530	01-95-00-0-3	- 530	900	260	310	70	420		185	250	4 x Ø 18	15	23

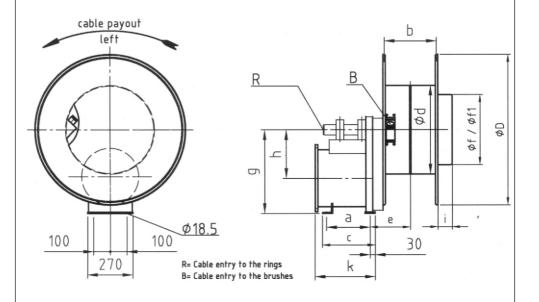
Cover dimension c in mm based on the number of poles

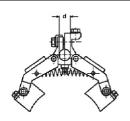
Type Series	3+Earth 26A	3+Earth 36A	3+Earth 40A	3+Earth 42A	3+Earth 60A	3+Earth 125A	3+Earth 150A	3+Earth 220A	4+Earth 26A	4+Earth 36A	4+Earth 40A	4+Earth 42A	4+Earth 60A
LT155	60		60						60		90		
LT180	90		90	-	-	-		-	90		90	-	
LT220	50	100	50	100	100				75	75	75	75	100
LT221	50	75	50	75	75			-	50	75	50	75	100
LT222	50	35	50	35	35				60	60	60		85
LT300	80	80	80	80	80	120	-		80	80	80	80	80
LT301	80	80	80	80	80	80			80	80	80	80	80
LT420		85	85		85		85		-	85	-	85	85
LT421		85	-	85	85		85			85		85	85
LT530		85	-	85	85		85	85		85		85	85



4.1 SPRING DRIVEN CABLE REELS

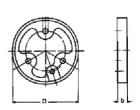
Type Series	Drawing No.	Ød	ØD	a	b	е	Øf	Øf1	g	h	С	k
LTAI 420	02-66-00-0-4	420	680	260	240	206	420	300	500	290	320	358
LTAI 421	02-66-00-0-4	420	770	260	240	206	420	300	500	290	315	358
LTAI 530	02-66-00-0-4	530	900	260	310	241	420	300	500	290	315	358
LTAII 530	02-66-00-0-4	530	900	390	310	241	420	300	500	290	445	488
LTAI 701	02-66-00-0-4	700	1200	260	350	255	300	300	500	290	315	358
LTAII 701	02-66-00-0-4	700	1200	390	350	255	300	300	500	290	445	488





BRUSH ASSEMBLIES

AMPS	DIMEN d(r	ISIONS nm)	PART NUMBER					
	PHASE	EARTH	PHASE	EARTH				
40	10	8	4-BA/40-P	4-BA/40-E				
60	13	12	4-BA/60-P	4-BA/60-E				
150	16	15	4-BA/150-P	4-BA/150-E				
220	17	16	4-BA/220-P	4-BA/220-E				



COLLECTOR RINGS

AMPS	DI	MEN d(n	ISIOI nm)	NS	PART NUM	BER
	D	(t	b		
	mm	Ph	E	mm	PHASE	EARTH
40	50	8.5	5.5	10	4-CR/40-P	4-CR/40-E
60	80	11.5	6.5	12	4-CR/60-P	4-CR/60-E
150	130	12.5	8.5	15	4-CR/150-P	4-CR/150-E
220	130	12.5	12.5 8.5		4-BA/220-P	4-CR/220-E

4.2 SLIP RING PACKS



SLIP RING PACKS USAGE

FOR POWER TRANSFER FROM STATIONARY SUPPLY TO ROTARY SUPPLY

APPLICATIONS: - 360 Jib Cranes

- Stacker Reclaimers for Mining

TurntablesDrill Rigs

- Revolving Light Towers

SLIP RING PACKS PRODUCT RANGE

POWER SUPPLY RANGE up to 30,000V ENCAPSULATED IP54

PRODUCTS: - Block type

- Air Gap type - Rotary type IP00

Rotary type IP54Gas and Explosion Proof ranges





4.3 MOTOR DRIVEN CABLE REELS

Motor Driven Cable Reeling drums

The economical solution forarduousapplications with less maintenance. Our range of motor driven reels can be fitted with different types of drive.

- Permanentmagnetic coupling (Hysteresis coupling)
- Stalled torque motor (Cage or slipring rotors)
- · Hydraulic coupling
- Induction coupling (with stator coil)







CABLE REELING DRUMS, INDIVIDUALLY DRIVEN WITHOUT COMPROMISE TO QUALITY

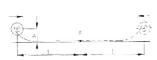
Suitable for use on portal, shipyard and harbour cranes, ship's cranes and tunnel construction applications.

Our cable reels can be used everywhere where live conductors are needed on travelling machinery. Cable is payed on and off the reels while the cable tension remains constant. High integrity data signals are ensured by using silver plated sliprings and silver carbon brushes.

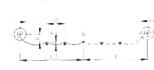
Optical waveguides can be used for the transmission of data lines without being influenced by power carrying sliprings.

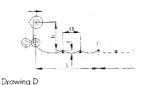
Hose Reeling Drums
Spring driven hose reeling
drums are similar in design
to the cable drums but the
slipring assembly is
replaced with a rotary
coupling, suitable for air,
gas, water, oil etc. with an
operating pressure up to
10 bar. For other medias
or pressures we can offer
special solutions.

CABLE REELS - Examples of Arrangements



Drawing B



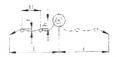


Drawing C

Drawing A







Drawing F



Drawing G



Drawing H

- 1 = max. payout length of cable in m (for cable payout in two directions = 1/2 travelling length)
- h = mounting height = distance from cable deposit or cable centre point

Drawing A and B

Cable drum on travelling device. Cable deposit on the ground or continuous deposit. Cable payout horizontal in one or two directions. Drawing B over deflector sheaves.

Drawing C and D

Cable drum on travelling device. Cable deposit on supports for l₁ up to 1 m. For l₁ over 1 m up to max. 3 m deposit on rollers or rounded level supports. Drawing D over deflector sheaves.

Drawing E

Cable drum on travelling device or fixed. Cable payout horizontal in one or two direc-

If is dependent on cross-section of cable and on pull of cable).

Drawing F

Cable drum fixed.

Cable payout horizontal in one or two directions. Cable deposit like drawings C and D but over deposit rollers.

Drawing G

Cable payout vertically downwards or at an angle.

I = lifting height or payout length L =cable length = $1 + l_2 + 2$ safety windings.

Drawing H

Cable payout vertically upwards, otherwise like drawing G.

12 = hanging cable in m see text 12 for this

It = distance of rollers or supports in m

4.5 CABLE REELS - Quote Request Sheet

١.	Length of travel	10.	Cable payout	20	. Arrangement of the cable drum
	L=m		horizontal	11	(drawings see page 41)
			vertical		A _ E _
2.	What length of cable should be coiled	ļ	hanging design		В 🗌 F 🗀
	onto the cable drum?	1	(see arrangement examples)		C G G
	l=m	1,,	Mounting height		D H
	(if the cable centre point is in the middle of the track, the length of cable must be half	1	Wooling heigh		
	the length of the track)	1			
			(from centre of cable drum to deposit or		. Extraordinary surrounding influences
3.	Type of coiling:		cable)		Mounting height more than 1000m above
	spiral	12	Drive of cable drum by springs		sea level NN
	cylindrical	12.	counterweight	11	or in mines
	3.2.3 winding		electric motor		humidity %
			electric motor		strong vibration yes
4.	Type and size of cable cross-section	13.	Operating voltage and type of current for		Explanation
	mm²	1	drum motor		
	Cable diameter Ø			-	по
	mm				Force of sound in dB acc. to DIN 45633
	Cable weight	1			Bi. 1
	kg/m	14.	How often does the device travel per hour?		
	kg/ !!!	1		-	Ambient temperature in °C
5.	Power and current requirements		/	ווי	from
					to
	kW	15.	Working (operating) time in hours per day		Surrounding air
	^			-	Sand dust
4	How much % of duty circle?	1	/	ווי	Coal dust
٥.	TION MISCH 70 ST GULY CHOICE	1.	- N. 166		Salt water
		10	Travelling or lifting speed		Other surroundings or areas of installation
			m/mi		
7.	How many insulated sliprings are required?			"	
		17	Acceleration		2. Finish
	(our cable drums are always equipped	"	T ISSUED IN THE SECOND IN THE	_ '	Primed and finished acc. to RAL
	with a non-insulated earth ring PE)		· · · · · · · · · · · · · · · · · · ·	s	7031 (normal design)
					Hot dip galvanizing
8.	For which device will the cable drum be	18	Deposit of cable		Sandblasting
	used?		between the tracks	11	Other surface treatment
			outside the tracks		
	(e.g. crane, tower crane, sliding platform etc.)				
	one.j	19	. Direction of pay out		
9.	Does the cable drum have to		to the right		For larger cable drums and motor drum
	be fixed (stationary) or mounted		to the left		we ask you to send us a drawing or sketch showing installation and mounting conditi
	on a travelling device?		(always seen from slipring body)		ons.

4.6 **CABLE REELS - Centre Feed and Guides CENTRE FEED CHANGE-OVER POINT** CABLE GUIDE - D100CG (100mm WHEEL) CABLE GUIDE - D250CG (250mm WHEEL) CABLE GUIDE - D600/250CG CABLE GUIDE - D450CG (450mm WHEEL) 2 WAY CABLE GUIDE - RDG 450 2W

WAY CABLE GUIDE - RDG 450 4W