

# TSL

## Rigging Power Distribution Guide

V40 - Q2 2024

For any queries, please contact [hiredesk@tsllighting.com](mailto:hiredesk@tsllighting.com)

**TSL Lighting Ltd.** Gateway House, Bilton Road, Kingsland Business Park, Basingstoke, RG24 8LJ

 +44 (0)20 8629 2025  [hiredesk@tsllighting.com](mailto:hiredesk@tsllighting.com)  [www.tsllighting.com](http://www.tsllighting.com)



# Contents

e-Contents	4
Styles	4
Rigging Power Distro	6
Hoist Controllers	1
<b>Reference Section</b>	
Mains Calculations	20
Cable Guide	21

# e-Contents

When viewing this document on an electronic device, the links below will allow you to quickly jump to information about a specific unit.

## Rigging Distro

[336](#)

[336b](#)

[337](#)

## Hoist Controllers

[6 way](#)

[12 way](#)

[24 way](#)

[48 way](#)

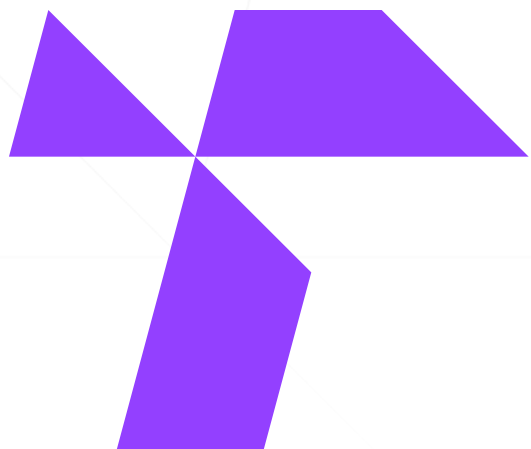
## Styles

TSL distros are categorised into one of four styles:

1. **Rubber box:** A small, free-standing unit with a rubber based exterior and (often) a handle on top, suitable for outdoor use.
2. **HDPE:** A slightly larger unit constructed of hardwearing plastic with integrated side handles.
3. **Rack mount:** Suitable for mounting in standard sized 19-inch rack unit enclosures.
4. **Flightcase:** A complete unit, permanently installed into a single light case; often the largest units in our range.







# TSL

## Rigging Power Distro

The following units have been highlighted as they have more or a rigging bias in connectors and protection. To view the full range of TSL's Power Distro, please visit the Distro Guide at

[www.tsllighting.com/distroguide](http://www.tsllighting.com/distroguide)



# Type 336

Style: Rubber box

	Connection/Type	Quantity	Protection
Input:	32A / 3	2	-
Output:	16A / 3 (4 pin)	2	16A C-Type MCB



# Type 336b

Style: HDPE

	Connection/Type	Quantity	Protection
Input:	32A / 3	2	-
Output:	16A / 3 (4 pin)	2	16A C-Type MCB
Notes:	Features phase indication LEDs and the ability to phase reverse by rotating/swapping pins in the input connector.		



# Type 337

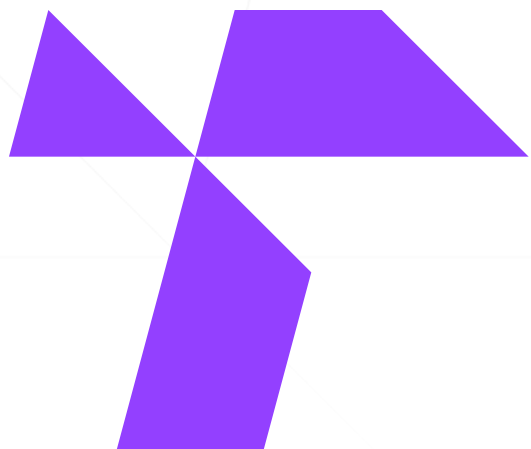
Style: Rubber box

	Connection/Type	Quantity	Protection
Input:	32A / 3	1	-
Output:	16A / 3	2	16A C-Type30m RCBO x2









# TSL

## Hoist Controllers

TSL Lighting Ltd. Gateway House, Bilton Road, Kingsland Business Park, Basingstoke, RG24 8LJ

 +44 (0)20 8629 2025  [hiredesk@tsllighting.com](mailto:hiredesk@tsllighting.com)  [www.tsllighting.com](http://www.tsllighting.com)

# Hoist Distro 6 way

Style: Rackmount

	Connection/Type	Quantity	Protection
Input:	32A / 3	1	32A D-Type MCB
Output:	LV-Wired Socapex	2	-
Notes:	Cable input, phase reversal switch, pickle & remote control options.		



# Hoist Distro 12 way

Style: Rackmount

	Connection/Type	Quantity	Protection
Input:	63A / 3	1	-
Output:	LV-Wired Socapex	4	-
Notes:	Cable Input, phase reversal switch, pickle & remote control options		





# Hoist Distro 24 way

Style: Flight Case

	Connection/Type	Quantity	Protection
Input:	Powerlock	1	125A C-Type MCB with Variable RCD
Output:	Powerlock	1	Unprotected
	32A/3	1	32A C-Type MCB
	16A/3 delta	2	16A C-Type MCB
	True 1	1	16A C-Type RCD
	LV-Wired Socapex	8	
Notes:	Each Hoist Controller is individually protected with a 40A D-Type MCB. This unit also features a “Phase reverse” switch which affects the <b>Hoist Controllers only</b> . This unit features a True1 Utility wired to L1 and a lockable 3U drawer.		



# Hoist Distro 24 way

Style: Flight Case



# Hoist Distro 48 way

Style: Flight Case

	Connection/Type	Quantity	Protection
Input:	Powerlock	1	125A C-Type MCB with Variable RCD
Output:	Powerlock	1	Unprotected
	32A/3	1	32A C-Type MCB
	16A/3 delta	2	16A C-Type MCB
	True 1	1	16A C-Type RCD
	LV-Wired Socapex	16	
Notes:	Each Hoist Controller is individually protected with a 40A D-Type MCB. This unit also features a “Phase reverse” switch which affects the <b>Hoist Controllers only</b> . This unit features a True1 Utility wired to L1 and a lockable 3U drawer.		

Style: Flight Case

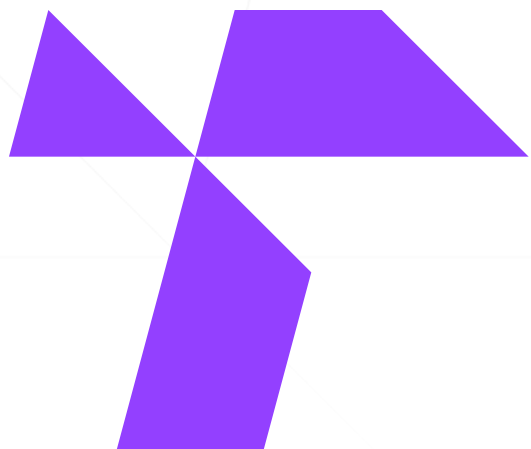






EXTERNAL JOINTS

OVERSIZED WASHERS



# TSL

## Reference Section

**TSL Lighting Ltd.** Gateway House, Bilton Road, Kingsland Business Park, Basingstoke, RG24 8LJ

 +44 (0)20 8629 2025    [hiredesk@tsllighting.com](mailto:hiredesk@tsllighting.com)    [www.tsllighting.com](http://www.tsllighting.com)











# Mains Calculations

All calculations are for guidance only and should be verified by a competent person(s)”

Current Calculations (at 230V L-N / 415V L-L)		
Model		Amps per phase (including inrush)
250kg 20m HOL CM Prostar B		1
500kg 20m HOL CM Lodestar F		1
1t 20m HOL D8 CM Lodestar LL		3.3
Model		Amps per phase
350kg 20m HL D8+ SF8 Litec EXE Rise		0.98
500kg 30m HOL D8+ SF8 Litec Exe Rise		1.31
1t 30m HOL D8+ SF8 Litec Exe Rise		1.54
1.12t 25m HOL Single Reeve D8+ Litec Exe Rise		1.54
2000kg 30m HOL Single Reeve D8+ Litec Exe Rise		3.3

# Cable Guide

All calculations are for guidance only and should be used in conjunction with BS7909 guidelines.

Mains Cable ratings - H07RN-F (based on max Amps in free air)		Connectors	
Conductor cross-sectional area (mm <sup>2</sup> )	Amps		16A, 32A or 63A single phase (size dependent).
25	142		16A 4-pin Motor cable (power)
35	162		16A 4-pin Motor cable (signal)
50	198		32A, 63A or 125A 3-phase (size dependent)
70	256		Powerlock (in and out)
95	314		Socapex (in and out)
120	365		Powercon (in and out)
150	422		True1 (in and out)

# Cable Guide

All calculations are for guidance only and should be used in conjunction with BS7909 guidelines.

Cable Colour Coding	
1m	Brown
2m	Blue
3m	White
5m	Green
10m	Yellow
15m	Yellow & Green
20m	Red
25m	Red & Green
30m	Red & Yellow
40m	Grey
50m	Grey & Yellow
60m	Grey & Red



25m