

# C-Rail Festoon track systems

## Cable & Hose carrying systems



### Application

C-Rail festoon track systems are the ideal solution for carrying cables supplying power to many types of moving machinery using either flat or round cables, typical uses include power feeds to hoists, factory cranes and pendant control systems. They can also be used to carry hoses for air, water, etc. A complete range of standard fittings is available for these systems along with a comprehensive selection of trolleys with carrying capacities up to 40kg / trolley. Standard track and components are manufactured from zinc plated steel and are suitable for the majority of industrial applications, where extra protection is required most components can be supplied with a polyester / epoxy coating and for extreme applications Stainless Steel track and components are also available. C-Rail festoon systems are also available for Ex rated Hazardous areas classified in Group 1 & 2 (Gas) & Group 21 & 22 (Dust) – details of these systems are shown later on in this section.

**System Calculations** (see drawing opposite)

### System (Track size) selection

System 2331 – max cable stack = 58mm x 20mm, max trolley load = 20kg

System 2500 – max cable stack = 115mm x 50mm, max trolley load = 40kg

### Cable Length

For correct installation the cable should never be pulled tight, we therefore recommend a 20% surplus be added to the overall track length, the calculation for cable length is shown below :

**Total cable length = (overall track length x 1.2 ) + required tail lengths.**

<i>Example</i>	Overall track length =15m
	Tail at Hoist end = 0.50m
	Tail at Feed end = 3m
	<b>Total cable length = (15 x 1.2) + 0.5 + 3 = 21.5m</b>

### Number of Trolleys

The number of trolleys required in the system is determined by the cable loop depth, so using the information above we can calculate the number of trolleys

Required as follows :

**No. of trolleys = [(overall track length x 1.2 ) / (2 x Loop depth)] - 1**

<i>Example</i>	Overall track length =15m
	Loop depth = 0.75m
	No. of Trolleys = [(15 x 1.2) / (2 x 0.75)] - 1 = 11
	In addition you require 1 x Tow Trolley & 1 X End Anchor

### Trolley selection

The correct trolleys should be selected by referring to the maximum cable stack, and maximum cable weight information shown on the trolley information on the following pages, maximum recommended cable stacks are calculated to ensure that trolley bodies will come together before the loops of cable clash or foul each other.



## C-Rail Festoon track systems

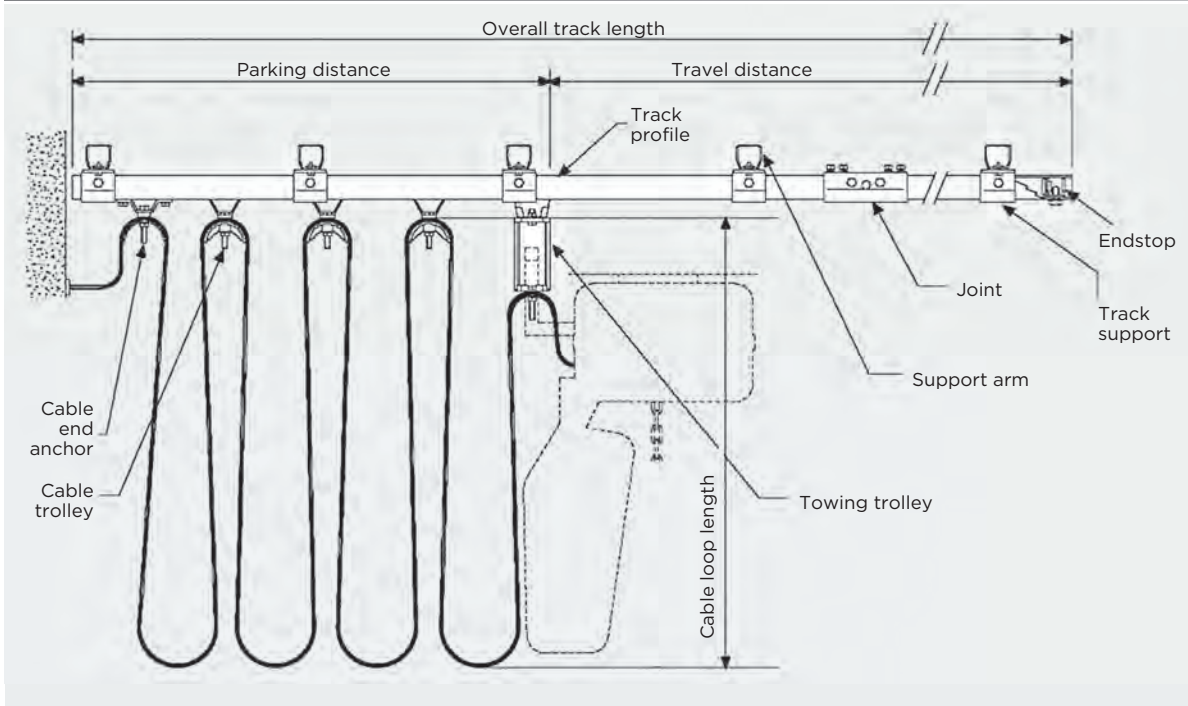
### Cable & Hose carrying systems

#### Parking Distance (see below)

The parking distance is the section of track taken up by the trolleys when collected together at the end of the system, this is a simple calculation determined by the number and type of trolleys.

<b>Example</b>	Overall track length = 15m
	Loop depth = 0.75m
	Trolley type 2401-5 (80mm body length)
	Tow trolley 2401-6 (80mm body length)
	Cable end anchor 2331-2 (80mm body length)
	No. of trolleys = 11
	<b>Parking distance = 80 + (11 x 80) + 80 = 1040mm</b>

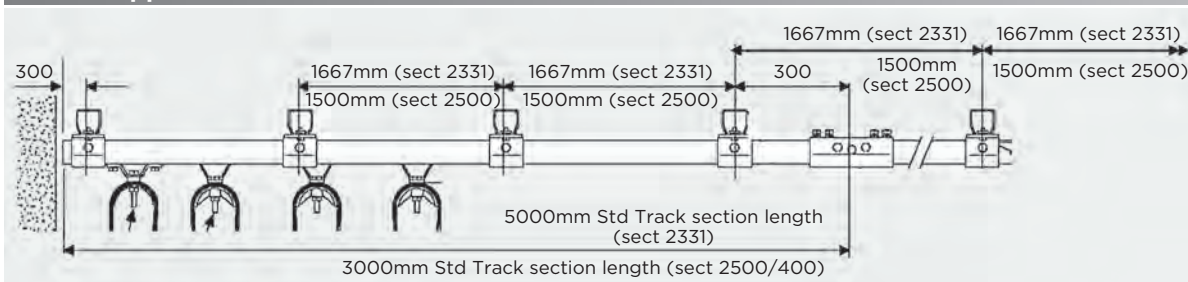
#### Festoon Track Assembly



#### Installation

Installation of the C-Rail festoon system is very straightforward and can easily be carried out by a team of two accomplished installation engineers. Support centres (as shown below) are 1667mm for system 2331 (5m Lengths) and 1500mm for systems 2500/400 (3m/6m Lengths). A support should always be included within 300mm of a track joint as indicated. A variety of supports & support brackets are available and are detailed on the following pages.

#### Track Support Details



We reserve the right to amend all technical details without prior notification



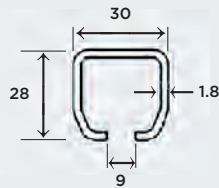
# System 2331 C-Rail Festoon Track System

## 30 x 28mm C-Rail Cable & Hose carrying system



### Track Profile

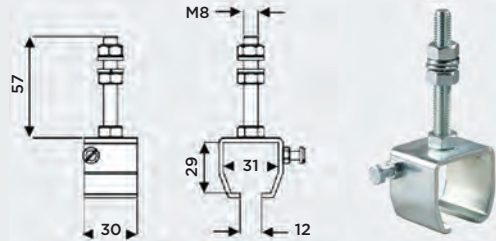
Part Code	Standard Length	Weight kg/m	Finish
2331-1	5 metres	1.32	Galv. Steel
2331-1-SS	5 metres	1.45	Stainless Steel



Standard Profile Length = 5 Metres

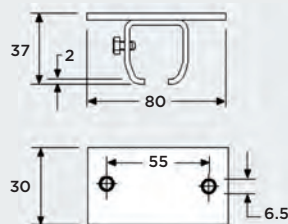
### Single Stud Support

Part Code	Finish	For use with
2331-4-A-R	Zinc Plated Steel	Galv. Steel Track
2331-4-A-R-PLY	Zinc Plated Steel+Red Polyester/Epoxy Finish	Galv. or Stainless Steel Track



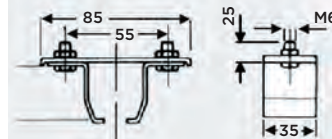
### Ceiling Support (Preferred)

Part Code	Finish	For use with
2340-13-31-31	Zinc Plated Steel	Galv. Steel Track
2340-13-31-31-PLY	Zinc Plated Steel+Red Polyester/Epoxy Finish	Galv. or Stainless Steel Track



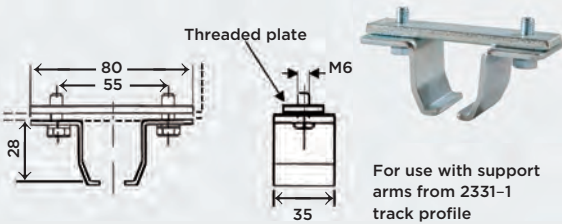
### Ceiling Support (Optional)

Part Code	Finish	For use with
2331-4	Zinc Plated Steel	Galv. Steel Track
2331-4-PLY	Zinc Plated Steel+Red Polyester/Epoxy Finish	Galv. or Stainless Steel Track
2331-4-SS	Stainless Steel	Stainless Steel Track



### Track Support

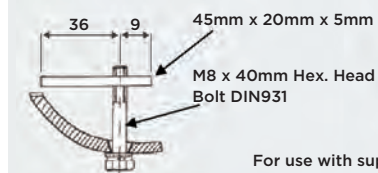
Part Code	Finish	For use with
2331-13-31-31	Zinc Plated Steel	Galv. Steel Track
2331-13-31-31-PLY	Zinc Plated Steel+Red Polyester/Epoxy Finish	Galv. or Stainless Steel Track



For use with support arms from 2331-1 track profile (see part no. CM-2)

### Beam Clip

Part Code	Finish	For use with
2340-12	Zinc Plated Steel	Galv. Steel Track
2340-12-PLY	Zinc Plated Steel+Red Polyester/Epoxy Finish	Galv. or Stainless Steel Track



For use with support arms from 2331-1 track profile (see part no. CM-2)

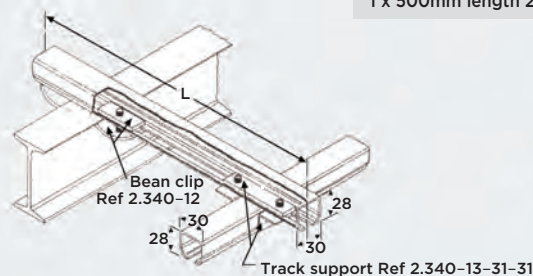
### Support Arm

Part Code	Finish	For use with
CM-2-500	Zinc Plated Steel	Galv./Stainless Steel Track

Support arm complete for 2331-1 track profile consists of:-

- 2 x Beam clip 2340-12
- 1 x Track support 2340-13-31-31
- 1 x 500mm length 2331-1 profile

For special lengths substitute required length 'L' for '500' in the part no. e.g. for L = 750mm, part no = CM-2-750

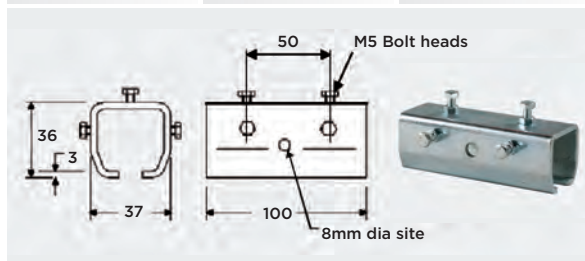


# System 2331

## 30 x 28mm C-Rail Cable & Hose carrying system

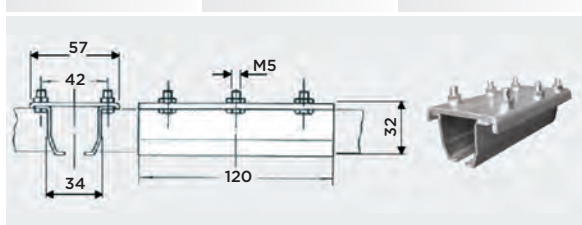
### Track Joint (Preferred)

Part Code	Finish	For use with
2331-3-E	Zinc Plated Steel	Galv. Steel Track
2331-3-E-PLY	Zinc Plated Steel+Red Polyester/Epoxy Finish	Galv. or Stainless Steel Track



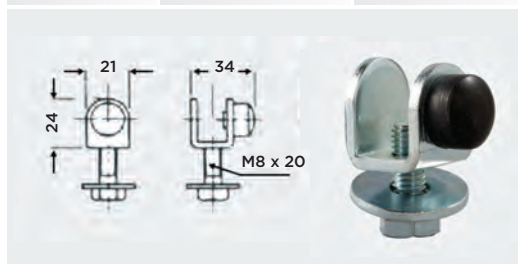
### Track Joint (Optional)

Part Code	Finish	For use with
2331-3	Zinc Plated Steel	Galv. Steel Track
2331-3-PLY	Zinc Plated Steel+Red Polyester/Epoxy Finish	Galv. or Stainless Steel Track
2331-3-SS	Stainless Steel	Stainless Steel Track



### Endstop

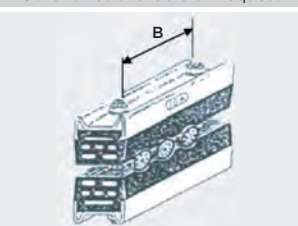
Part Code	Finish	For use with
2309-2	Zinc Plated Steel	Galv. Steel Track
2309-2-PLY	Zinc Plated Steel+Red Polyester/Epoxy Finish	Galv. or Stainless Steel Track



### Cable Clamp

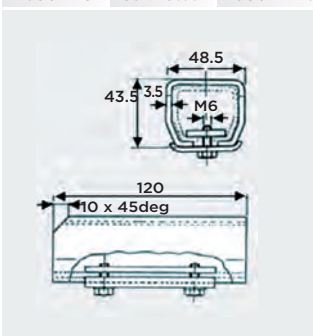
Part Code	Max Cable Width
B-58	58mm
B-65	65mm
B-90	90mm
B-117	117mm

Other sizes available on request



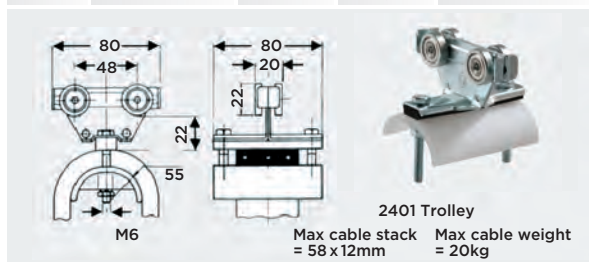
### Welded Beam Fixing Clamp

Part Code	Finish	Use with
2600-120	Galv. Steel	2500 Arms



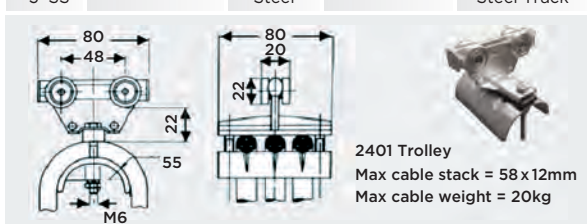
### Cable Trolley

Part Code	Body	Wheels & Axles	Cable Clip	For use with
2401-5	Zinc Plated Steel	Zinc Plated Steel	Poly-propylene	Galv. Steel Track
2401-5-PLY	Zinc Plated Steel+Red Polyester/Epoxy Finish	Stainless Steel	Poly-propylene	Galv. or Stainless Steel Track



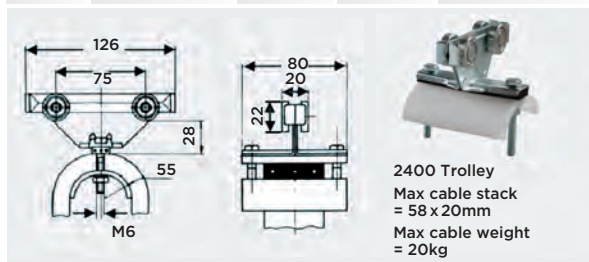
### Cable Trolley

Part Code	Body	Wheels & Axles	Cable Clip	For use with
2401-C-5	Zinc Plated Steel	Zinc Plated Steel	Zinc Plated Steel	Galv. Steel Track
2401-C-5-PLY	Zinc Plated Steel+Red Polyester/Epoxy Finish	Stainless Steel	Zinc Plated Steel+Red Polyester/Epoxy Finish	Galv. or Stainless Steel Track
2401-CH-5-SS	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel Track



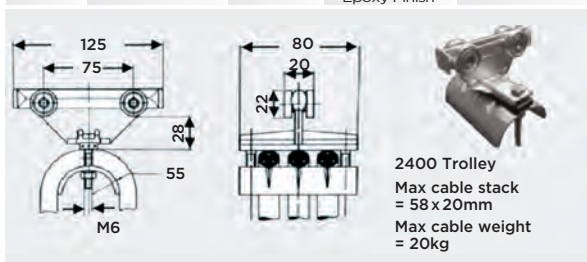
### Cable Trolley (Long body)

Part Code	Body	Wheels & Axles	Cable Clip	For use with
2400-5	Zinc Plated Steel	Zinc Plated Steel	Poly-propylene	Galv. Steel Track
2400-5-PLY	Zinc Plated Steel+Red Polyester/Epoxy Finish	Stainless Steel	Poly-propylene	Galv. or Stainless Steel Track



### Cable Trolley (Long body)

Part Code	Body	Wheels & Axles	Cable Clip	For use with
2400-C-5	Zinc Plated Steel	Zinc Plated Steel	Zinc Plated Steel	Galv. Steel Track
2400-C-5-PLY	Zinc Plated Steel+Red Polyester/Epoxy Finish	Stainless Steel	Zinc Plated Steel+Red Polyester/Epoxy Finish	Galv. or Stainless Steel Track



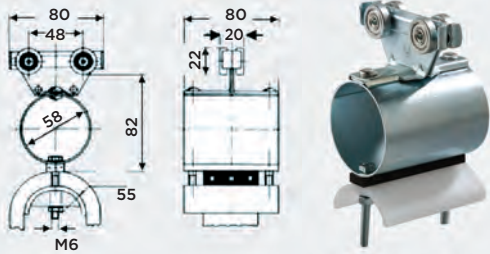
# System 2331

## 30 x 28mm C-Rail Cable & Hose carrying system



### Towing Trolley

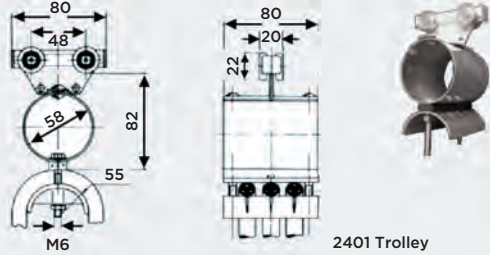
Part Code	Body	Wheels & Axles	Cable Clip	For use with
2401-6	Zinc Plated Steel	Zinc Plated Steel	Poly-propylene	Galv. Steel Track
2401-6-PLY	Zinc Plated Steel+Red Polyester/Epoxy Finish	Stainless Steel	Poly-propylene	Galv. or Stainless Steel Track



2401 Trolley  
Max cable stack = 58 x 12mm  
Max cable weight = 20kg

### Towing Trolley

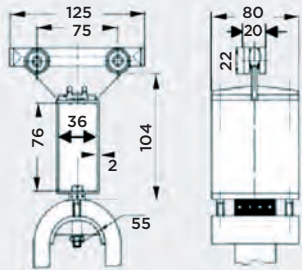
Part Code	Body	Wheels & Axles	Cable Clip	For use with
2401-C-6	Zinc Plated Steel	Zinc Plated Steel	Zinc Plated Steel	Galv. Steel Track
2401-C-6-PLY	Zinc Plated Steel+Red Polyester/Epoxy Finish	Stainless Steel	Zinc Plated Steel+Red Polyester/Epoxy Finish	Galv. or Stainless Steel Track
2401-CH-6-SS	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel Track



2401 Trolley  
Max cable stack = 58 x 12mm  
Max cable weight = 20kg

### Towing Trolley (Long body)

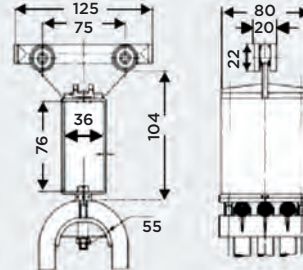
Part Code	Body	Wheels & Axles	Cable Clip	For use with
2400-6	Zinc Plated Steel	Zinc Plated Steel	Poly-propylene	Galv. Steel Track
2400-6-PLY	Zinc Plated Steel+Red Polyester/Epoxy Finish	Stainless Steel	Poly-propylene	Galv. or Stainless Steel Track



2400 Trolley  
Max cable stack = 58 x 20mm  
Max cable weight = 20kg

### Towing Trolley (Long body)

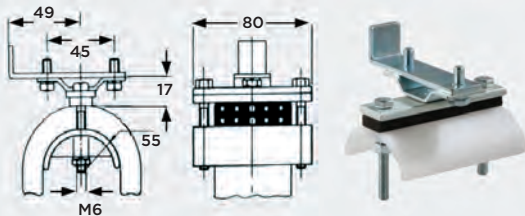
Part Code	Body	Wheels & Axles	Cable Clip	For use with
2400-C-6	Zinc Plated Steel	Zinc Plated Steel	Zinc Plated Steel	Galv. Steel Track
2400-C-6-PLY	Zinc Plated Steel+Red Polyester/Epoxy Finish	Stainless Steel	Zinc Plated Steel+Red Polyester/Epoxy Finish	Galv. or Stainless Steel Track



2400 Trolley  
Max cable stack = 58 x 20mm  
Max cable weight = 20kg

### Cable End Anchor

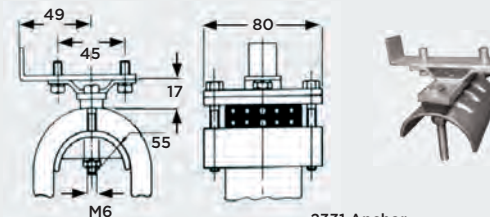
Part Code	Body	Cable Clip	For use with
2331-2	Zinc Plated Steel	Polypropylene	Galvanised Steel Track
2331-2-PLY	Zinc Plated Steel+Red Polyester/Epoxy Finish	Polypropylene	Galv. or Stainless Steel Track



2331 Anchor  
Max cable stack = 58 x 20mm  
Max cable weight = 20kg

### Cable End Anchor

Part Code	Body	Cable Clip	For use with
2331-C-2	Zinc Plated Steel	Zinc Plated Steel	Galvanised Steel Track
2331-C-2-PLY	Zinc Plated Steel+Red Polyester/Epoxy Finish	Zinc Plated Steel+Red Polyester/Epoxy Finish	Galv. or Stainless Steel Track
2331-C-2-SS	Stainless Steel	Stainless Steel	Stainless Steel Track



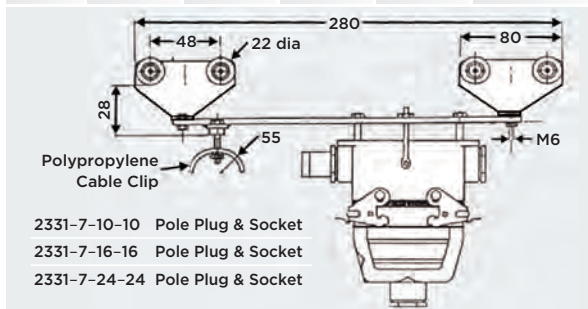
2331 Anchor  
Max cable stack = 58 x 20mm  
Max cable weight = 20kg

# System 2331

## 30 x 28mm C-Rail Cable & Hose carrying system

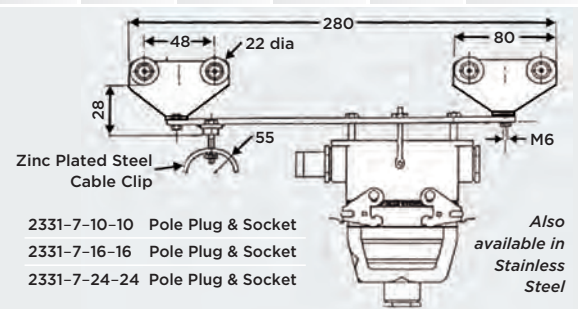
### Pendant Trolley (Plug & Socket)

Part Code	Body & Plate	Wheels & Axles	Cable Gland	Cable Clip	For use with
2301-7-10	Zinc Plated Steel	Zinc Plated Steel	Polyamide	Polypropylene	Galvanised Steel Track
2301-7-16	Zinc Plated Steel	Zinc Plated Steel	Polyamide	Polypropylene	Galvanised Steel Track
2301-7-24	Zinc Plated Steel	Zinc Plated Steel	Polyamide	Polypropylene	Galvanised Steel Track



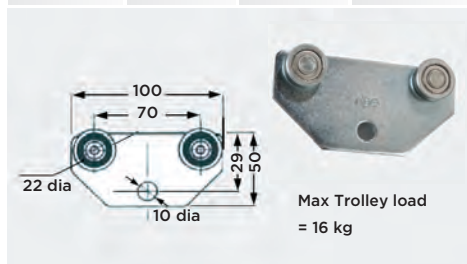
### Pendant Trolley (Plug & Socket)

Part Code	Body & Plate	Wheels & Axles	Cable Gland	Cable Clip	For use with
2301-7-C-10	Zinc Plated Steel	Zinc Plated Steel	Polyamide	Zinc Plated Steel	Galvanised Steel Track
2301-7-C-16	Zinc Plated Steel	Zinc Plated Steel	Polyamide	Zinc Plated Steel	Galvanised Steel Track
2301-7-C-24	Zinc Plated Steel	Zinc Plated Steel	Polyamide	Zinc Plated Steel	Galvanised Steel Track



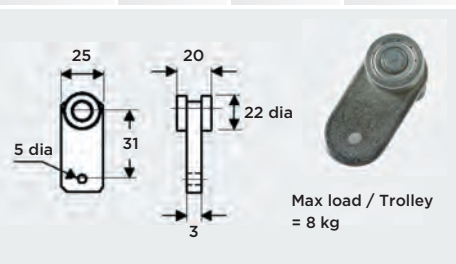
### 4 Wheel Curtain Trolley

Part Code	Body	Wheels & Axles	For use with
2330-D-22	Zinc Plated Steel	Zinc Plated Steel	Galvanised Steel Track
2330-D-22-SS	Stainless Steel	Stainless Steel	Stainless Steel Track

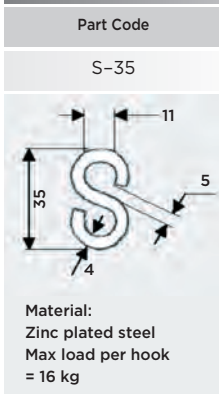


### 2 Wheel Curtain Trolley

Part Code	Body	Wheels & Axles	For use with
2330-22	Zinc Plated Steel	Zinc Plated Steel	Galvanised Steel Track
2330-22-SS	Stainless Steel	Stainless Steel	Stainless Steel Track



### 'S' Hook



### Round Cable / Hose Trolleys

Part Code	Item	Body	Wheels & Axles	For use with
2338-5	Trolley	Zinc Plated Steel	Zinc Plated Steel	Galv. Steel Track
2338-2	End Anchor	Zinc Plated Steel	N/A	Galv. Steel Track
2338-6	Tow Trolley	Zinc Plated Steel	Zinc Plated Steel	Galv. Steel Track

