

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
	Total cable length = (15 x 1.2) + 0.5 + 3 = 21.5m

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.

System 2500 C-Rail Festoon System

40 x 35mm C-Rail Cable & Hose carrying system



Track Profile

Part Code	Standard Length	Weight kg/m	Finish
2500-1	3 metres	2.22	Galv. Steel

Standard Profile Length = 3 Metres

Single Stud Support

Part Code	Finish	For use with
2500-4-R	Zinc Plated Steel	Galv. Steel Track
2500-4-R-PLY	Zinc Plated Steel+Red Polyester/Epoxy Finish	Galv. or Stainless Steel Track

Ceiling Support

Part Code	Finish	For use with
2500-4	Zinc Plated Steel	Galv. Steel Track
2500-4-A-PLY	Zinc Plated Steel+Red Polyester/Epoxy Finish	Galv. or Stainless Steel Track

Track Joint

Part Code	Finish	For use with
2500-3	Zinc Plated Steel	Galv. Steel Track
2500-3-PLY	Zinc Plated Steel+Red Polyester/Epoxy Finish	Galv. or Stainless Steel Track

End Stop

Part Code	Finish	For use with
2502-2	Zinc Plated Steel	Galv. Steel Track
2502-2-PLY	Zinc Plated Steel+Red Polyester/Epoxy Finish	Galv. or Stainless Steel Track

Towing Arm

Part Code	5,6/400
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Zinc plated steel & aluminium RAL9006 polyester

Black plastic end cap

Support Arm

Part Code	Finish	For use with
CM-3-500	Zinc Plated Steel	Galv./Stainless Steel Track

Support arm complete for 2500-1 track profile consists of:-
 2 x Beam clip 2340-12-500
 1 x Track support 2500-4
 1 x 500mm length 2500-1 profile

For special lengths substitute required length 'L' for '500' in the part no.

Beam Clip

Part Code	Finish	For use with
2340-12-500	Zinc Plated Steel	Galv. Steel Track
2340-12-500-PLY	Zinc Plated Steel+Red Polyester/Epoxy Finish	Galv. or Stainless Steel Track

For use with support arms from 2500-1 track profile (see part no. CM-3)

System 2500

40 x 35mm C-Rail Cable & Hose carrying system

Cable Trolley				
Part Code	Body	Wheels & Axles	Cable Clip	For use with
2500-5	Zinc Plated Steel	Zinc Plated Steel	Galvanised Steel	Galv. Steel Track
2500-5-PLY	Zinc Plated Steel +Red Polyester/Epoxy Finish	Stainless Steel	Zinc Plated Steel +Red Polyester/Epoxy Finish	Stainless Steel Track

2500 Trolley
Max cable stack = 90 x 30mm
Max cable weight = 40kg

Tow Trolley				
Part Code	Body	Wheels & Axles	Cable Clip	For use with
2500-6	Zinc Plated Steel	Zinc Plated Steel	Galvanised Steel	Galv. Steel Track
2500-6-PLY	Zinc Plated Steel +Red Polyester/Epoxy Finish	Stainless Steel	Zinc Plated Steel +Red Polyester/Epoxy Finish	Stainless Steel Track

2500 Trolley
Max cable stack = 90 x 30mm
Max cable weight = 40kg

Cable End Anchor				
Part Code	Body	Wheels & Axles	Cable Clip	For use with
2500-2	Zinc Plated Steel	Zinc Plated Steel	Galvanised Steel	Galv. Steel Track
2500-2-PLY	Zinc Plated Steel +Red Polyester/Epoxy Finish	Stainless Steel	Zinc Plated Steel +Red Polyester/Epoxy Finish	Galvanised or Stainless Steel Track

2500 End Anchor
Max cable stack = 90 x 30mm
Max cable weight = 40kg

Cable Trolley				
Part Code	Body	Wheels & Axles	Cable Clip	For use with
2500-150-5	Zinc Plated Steel	Zinc Plated Steel	Galvanised Steel	Galv. Steel Track
2500-150-5-PLY	Zinc Plated Steel +Red Polyester/Epoxy Finish	Stainless Steel	Zinc Plated Steel +Red Polyester/Epoxy Finish	Stainless Steel Track

2500-150 Trolley
Max cable stack = 65 x 25mm
Max cable weight = 40kg

Tow Trolley				
Part Code	Body	Wheels & Axles	Cable Clip	For use with
2500-150-6	Zinc Plated Steel	Zinc Plated Steel	Galvanised Steel	Galv. Steel Track
2500-6-150-PLY	Zinc Plated Steel +Red Polyester/Epoxy Finish	Stainless Steel	Zinc Plated Steel +Red Polyester/Epoxy Finish	Stainless Steel Track

2500-150 Trolley
Max cable stack = 65 x 25mm
Max cable weight = 40kg

Cable End Anchor				
Part Code	Body	Wheels & Axles	Cable Clip	For use with
2500-150-2	Zinc Plated Steel	Zinc Plated Steel	Galvanised Steel	Galv. Steel Track
2500-2-150-PLY	Zinc Plated Steel +Red Polyester/Epoxy Finish	Stainless Steel	Zinc Plated Steel +Red Polyester/Epoxy Finish	Galvanised or Stainless Steel Track

2500-150 End Anchor
Max cable stack = 65 x 25mm
Max cable weight = 40kg

System 2500

40 x 35mm C-Rail Cable & Hose carrying system



Cable Trolley

Part Code	Body	Wheels & Axles	Cable Clip	For use with
2500-250-5	Zinc Plated Steel	Zinc Plated Steel	Galvanised Steel	Galv. Steel Track
2500-5-250-PLY	Zinc Plated Steel +Red Polyester/Epoxy Finish	Stainless Steel	Zinc Plated Steel +Red Polyester/Epoxy Finish	Stainless Steel Track

2500-250 Trolley
Max cable stack = 115 x 50mm
Max cable weight = 40kg

Tow Trolley

Part Code	Body	Wheels & Axles	Cable Clip	For use with
2500-6	Zinc Plated Steel	Zinc Plated Steel	Galvanised Steel	Galv. Steel Track
2500-6-PLY	Zinc Plated Steel +Red Polyester/Epoxy Finish	Stainless Steel	Zinc Plated Steel +Red Polyester/Epoxy Finish	Stainless Steel Track

2500-250 Tow
Max cable stack = 115 x 50mm
Max cable weight = 40kg

Cable End Anchor

Part Code	Body	Wheels & Axles	Cable Clip	For use with
2500-250-2	Zinc Plated Steel	Zinc Plated Steel	Galvanised Steel	Galv. Steel Track
2500-250-2-PLY	Zinc Plated Steel +Red Polyester/Epoxy Finish	Stainless Steel	Zinc Plated Steel +Red Polyester/Epoxy Finish	Galvanised or Stainless Steel Track

2500 End Anchor
Max cable stack = 90 x 30mm
Max cable weight = 40kg

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

Support bracket for welding to customers beam - to be used with length of section 2500 c-track with supporting 2331 or 2500 track system