

VANTRUNK SPEEDWAY





THE ENHANCED SPEEDWAY EXTREME CABLE LADDER SYSTEM

THE SPEEDWAY CABLE LADDER SYSTEM REPRESENTS A MAJOR ADVANCE IN CABLE LADDER DESIGN, PROVIDING FASTER & EASIER INSTALLATION, GREATER CABLE FILL CAPACITY AND TOTAL FLEXIBILITY.



Quick Assembly
Cable Ladder



Flexible
Solutions



Rapid
Installation
Systems



Extreme
Steel



Withstands
extreme
temperatures
(-50° to +50°C)

HOW TO ORDER

CODE SYSTEM EXPLAINED

The information given on these pages should be used as a guide when ordering Speedway Cable Ladder, Fittings and Accessories. For more detailed information and examples refer to the relevant page within the catalogue.

Speedway Straight Ladder

System Type	Ladder Type	Width	Finish & Material
eg. SW4	SL3	300	GA

Speedway Fittings

System Type	Fitting Type	Width	Radius	Finish & Material
eg. SW4	FE30	300	450	GA

Speedway Couplers

System Type	Coupler Type	Finish & Material
eg. SW4	CS	GA

Speedway Accessories

System Type	Accessory Type	Width	Finish & Material
eg. SW4	DIV	300	GA

Speedway Straight Ladder Covers

System Type	Cover Type	Ladder Type	Width	Finish & Material
eg. SW4	CC	SL3	300	GA

Speedway Fitting Covers

System Type	Cover Type	Fitting Type	Width(s)	Radius	Finish & Material
eg. SW4	CC/FFC	FE30	300	450	GA

Finish and Materials (●)

Details on the full range of standard Finishes and Materials are given in the Finish and Materials section (page 26) and General Technical Section (page 246).



HOT DIPPED
GALVANIZED
VANTRUNK
EXTREME
STEEL



HOT DIPPED
GALVANIZED
VANTRUNK
MILD STEEL



HOT DIPPED
GALVANIZED
VANTRUNK SILICON
RICH STRUCTURAL
STEEL



DEEP
GALVANIZED
VANTRUNK
SILICON RICH
STRUCTURAL
STEEL



MARINE GRADE
STAINLESS
STEEL



System Type

SW4	Speedway SW4
SW5	Speedway SW5
SW6	Speedway SW
SW	Common to all Speedway systems
SW45	Common to SW4 & SW5

Ladder Type

SL3	Straight ladder – 3m length
SL6	Straight ladder – 6m length

Fitting Type

FE	Flat elbow
IR	Inside riser
OR	Outside riser
AR	Articulated riser (add number of sections e.g. AR3 = 3 sections)
ET	Equal tee
UT	Unequal tee (quote main width Wm & branch width Wb)
EC	Cross
RS	Straight Reducer (quote primary width Wp & secondary width Ws)
RL	Reducer left (quote primary width Wp & secondary width Ws)
RR	Reducer right (quote primary width Wp & secondary width Ws)

Width (standard)

150mm, 300mm, 450mm, 600mm, 750mm, 900mm & 1050mm

Radius (standard)

300mm, 450mm, 600mm, 750mm, 900mm, 1050mm & 1200mm

Coupler Type

CS	Straight coupler
HAC	Horizontal adjustable coupler (SW4 & SW5 are common – use SW45)
VAC	Vertical adjustable coupler (SW4 & SW5 are common – use SW45)

Code Sample: Choose system type and finish

Page

35

36

37

Common to all Speedway systems

Common to SW4 & SW5

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Common to all Speedway systems

Common to SW4 & SW5

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Common to all Speedway systems

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Common to all Speedway systems

Common to SW4 & SW5



CABLE LADDER

Speedway Straight Cable Ladder is available in standard widths of 150mm, 300mm, 450mm, 600mm, 750mm, 900mm & 1050mm. Other widths from 100mm to 1500mm in 50mm increments are available to order.

Ladders over 1050mm wide are available in Heavy and Extra Heavy Duty systems only. Speedway Straight Cable Ladder is available in lengths of 3m and 6m. Unless otherwise specified, 3m lengths are supplied as standard. 6m lengths are made to order.

Speedway cable ladder systems are manufactured in either 1.5mm or 2.0mm material gauges as standard, after taking into consideration the environmental conditions into which the system is being installed.

Details of all available side walls and rung gauge configurations are given in the Speedway Technical Section, consult our Sales Team for details.

The standard side wall and rung gauge combination will be supplied unless otherwise stated.

Rung spacing on straight ladders is at 300mm centres. As standard, the Speedway rung is orientated alternately inverted to allow for cable cleat spacing at 600mm centres.

Other orientations such as rungs all facing up or all facing down are available to order.

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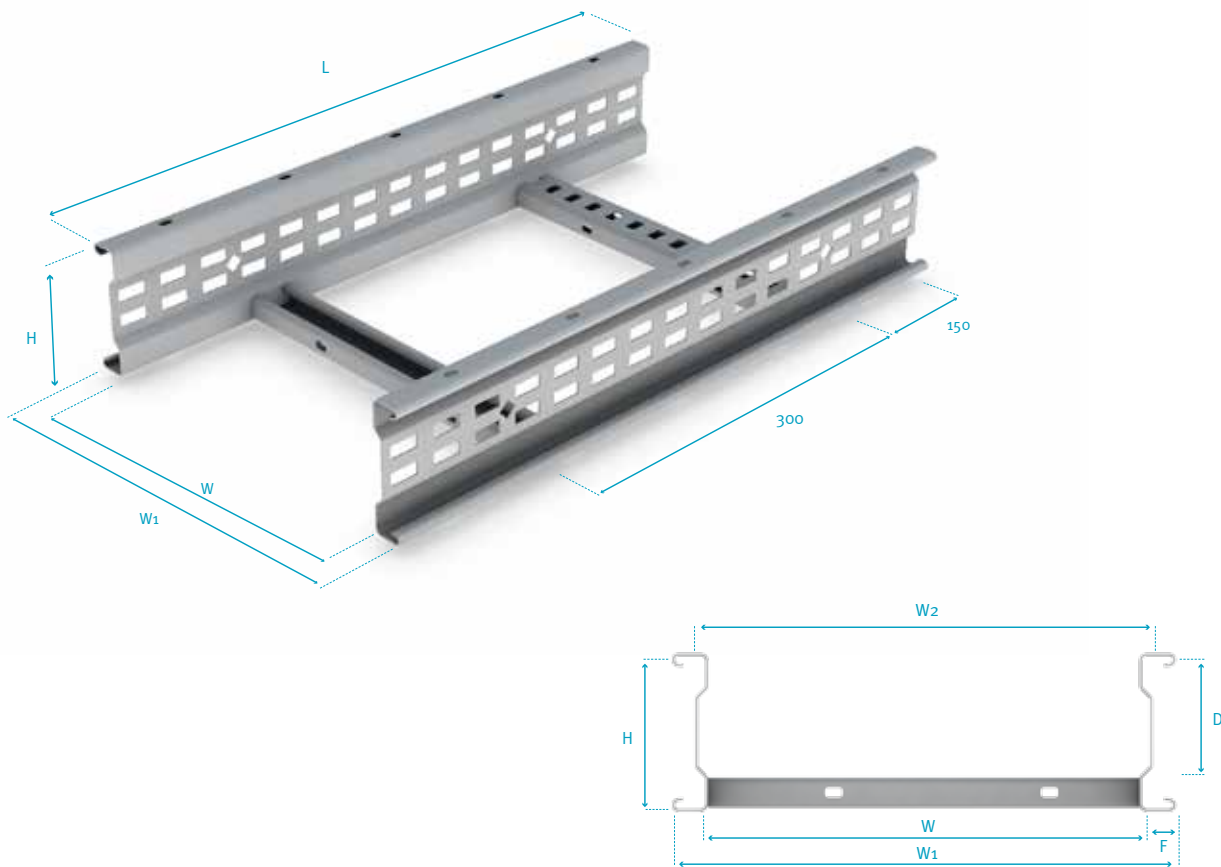
SW4 / SL3* / 150 / GY
System Type Ladder Type Width Finish

*Straight Cable ladder is available in: SL3 (3000mm), SL6 (6000mm)
(For non-standard lengths please contact our Sales Team)

Speedway SW4 Cable Ladder

Speedway 4 (SW4) Medium Duty Cable Ladder is manufactured in 3.0m lengths as standard with 6.0m lengths to order. The cable ladder is available in standard widths of 150mm, 300mm, 450mm, 600mm, 750mm and 900mm, although other widths up to 1050mm are available to order. Rung spacing is 300mm as standard.

Ref.SW4



Part Number	No. of Rungs	Dimensions (mm)				Weight (kg)
		W	W1	L	H	
SW4/SL3/150/○	10	150	190	3000	104	11.93
SW4/SL3/300/○	10	300	340			13.55
SW4/SL3/450/○	10	450	490			15.17
SW4/SL3/600/○	10	600	640			16.79
SW4/SL3/750/○	10	750	790			21.12
SW4/SL3/900/○	10	900	940			23.28
SW4/SL3/1050/○	10	1050	1090			25.44

○ = Select a Finish & Material

Weights shown are for standard hot dip galvanised finish only, for Stainless Steel and Silicon Rich Steel weight conversion factors please refer to the Speedway Technical Section of our catalogue (Page 96).

Height	H	104mm
Loading Depth	D	78mm
Ladder Width	W	100mm to 1050mm
Maximum Internal Width	W2	W + 10mm
Overall Width	W1	W + 40mm
Flange Width	F	20mm

Finishes & Materials:



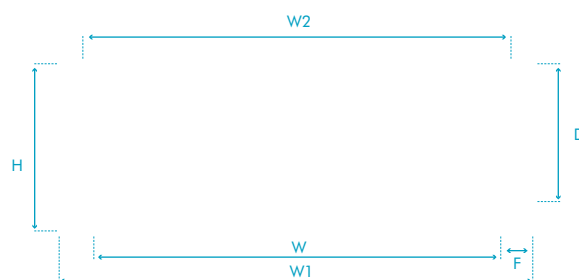
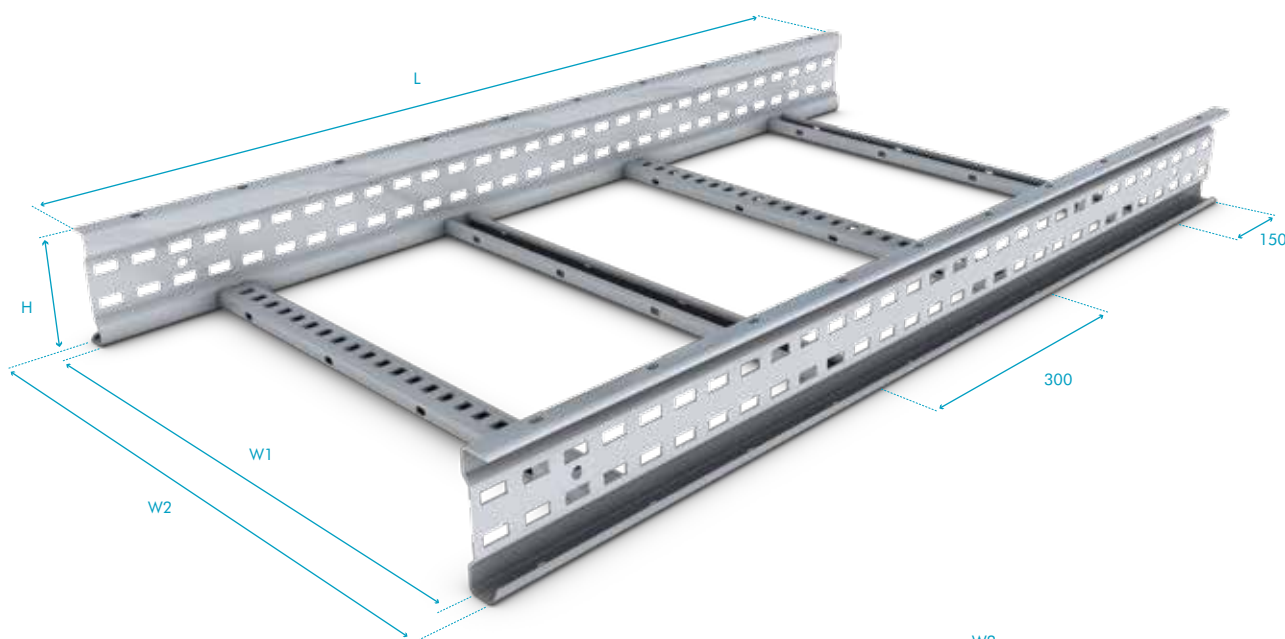
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Speedway SW5 Cable Ladder

Speedway 5 (SW5) Heavy Duty Cable Ladder is manufactured in 3.0m lengths as standard with 6.0m lengths supplied to order. The cable ladder is available in standard widths of 150mm, 300mm, 450mm, 600mm, 750mm, 900mm and 1050mm, although other widths up to 1500mm are available to order. Rung spacing is 300mm as standard.

Ref.SW5



Part Number	No. of Rungs	Dimensions (mm)				Weight (kg)
		W	W1	L	H	
SW5/SL3/150/○	10	150	200	3000	125	18.53
SW5/SL3/300/○	10	300	350			20.15
SW5/SL3/450/○	10	450	500			21.77
SW5/SL3/600/○	10	600	650			23.40
SW5/SL3/750/○	10	750	800			27.72
SW5/SL3/900/○	10	900	950			29.88
SW5/SL3/1050/○	10	1050	1100			32.05

Height	H	125mm
Loading Depth	D	100mm
Ladder Width	W	100mm to 1500mm
Maximum Internal Width	W1	W + 14mm
Overall Width	W2	W + 50mm
Flange Width	F	25mm

Finishes & Materials:



Supplied with:



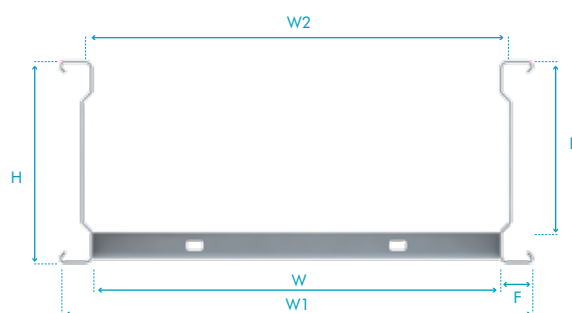
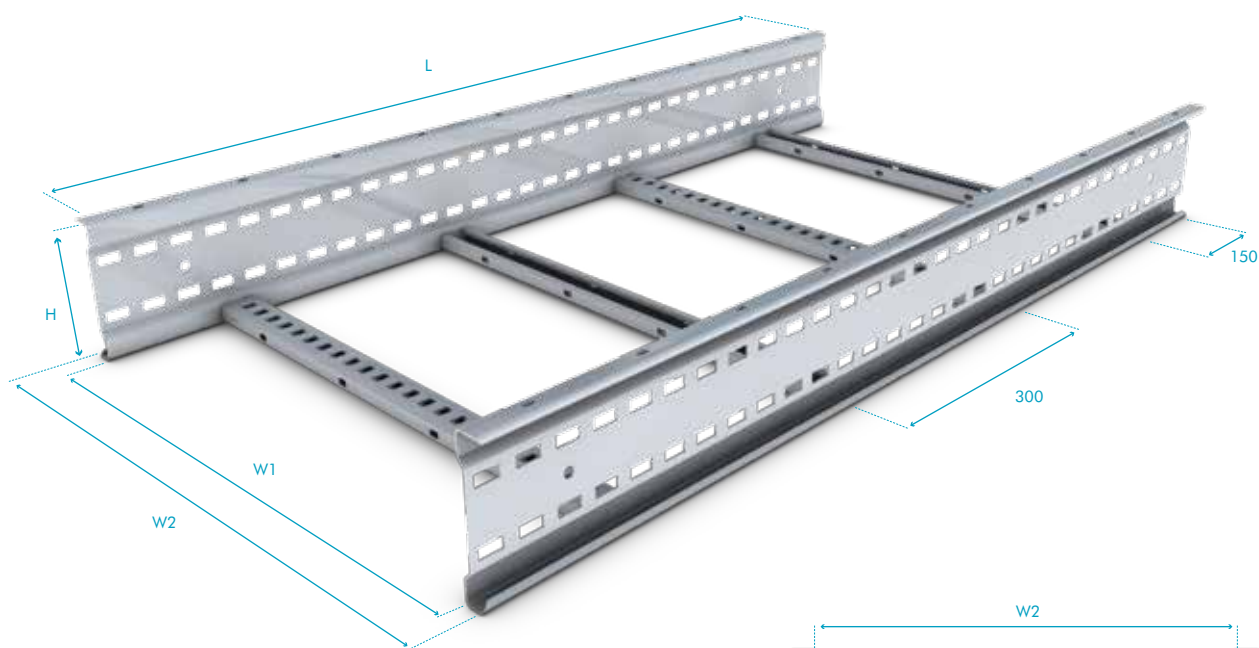
○ = Select a Finish & Material

Weights shown are for standard hot dip galvanised finish only, for Stainless Steel and Silicon Rich Steel weight conversion factors please refer to the Speedway Technical Section of our catalogue (Page 96).

Speedway SW6 Cable Ladder

Speedway 6 (SW6) Extra Heavy Duty Cable Ladder is manufactured in 3.0m lengths as standard with 6.0m lengths supplied to order. The cable ladder is available in standard widths of 150mm, 300mm, 450mm, 600mm, 750mm, 900mm and 1050mm, although other widths up to 1500mm are available to order. Rung spacing is 300mm as standard.

Ref.SW6



Part Number	No. of Rungs	Dimensions (mm)				Weight (kg)
		W	W1	L	H	
SW6/SL3/150/O	10	150	200	3000	150	21.63
SW6/SL3/300/O	10	300	350			23.79
SW6/SL3/450/O	10	450	500			25.95
SW6/SL3/600/O	10	600	650			28.11
SW6/SL3/750/O	10	750	800			30.28
SW6/SL3/900/O	10	900	950			32.44
SW6/SL3/1050/O	10	1050	1100			34.60

Height	H	150mm
Loading Depth	D	125mm
Ladder Width	W	100mm to 1500mm
Maximum Internal Width	W1	W + 14mm
Overall Width	W2	W + 50mm
Flange Width	F	25mm

Finishes & Materials:



Supplied with:



O= Select a Finish & Material

Weights shown are for standard hot dip galvanised finish only, for Stainless Steel and Silicon Rich Steel weight conversion factors please refer to the Speedway Technical Section of our catalogue (Page 96).



FITTINGS

Vantrunk Speedway cable ladder fittings incorporate several features which enhance the systems ease of installation.

All Speedway fittings are manufactured with the Speedlok Integral Coupler, thereby, reducing the number of fixings required to connect the ladder and fitting and in turn reducing the ladder to fitting connection time by 67%. The substantial reduction in the number of fixings and reduction in the number of couplers required helps to reduce top side weight in off-shore facilities.

As in the cable ladder side wall, the cable ladder fitting side wall has an offset central web to enhance stability under load conditions.

All radius sections in the Vantrunk Speedway range of fittings have a repeatable and true radius which eliminates the traditional "make it fit" approach during installation.

All Speedway fittings are pre-drilled to accept an earth bonding jumper at all connection points thereby complying with the IEC, European Norms and NEMA standards requirements.

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LOK DOWN WITH THE INTEGRAL COUPLER



SPEEDLOK INTEGRAL COUPLER FEATURES:

All Speedway fittings are manufactured with the Speedlok Integral Coupler as standard; this represents a major advance in modern cable management design. The Speedlok Integral Couplers reduce:

- The number of fixings required to connect the ladder and fitting, in turn reducing the ladder to fitting connection by 67%.
- And therefore the overall installation time, weight and cost.

For more information on the Speedlok Integral Coupler visit vantrunk.com



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SPEEDLOK
QUICKFIT CABLE LADDER





FLAT ELBOWS

Speedway Flat Elbows (FE) are designed to create fixed angular coplanar connections between horizontal cable runs (cable ladder installed in horizontal plane) and between vertical cable runs (cable ladder installed in vertical plane).

Speedway Flat Elbows are available in widths from 150mm to 1050mm and angles at 30, 45, 60 and 90 degree as standard. The standard radii are 300mm, 450mm, 600mm 750mm and 900mm. Other widths between 100mm to 1500mm and radii, subject to cable ladder system type, are also available.

The Speedway Flat Elbow is manufactured with a repeatable and true radius which eliminates the traditional approach of 'make it fit' during installation.

All Speedway Flat Elbows are manufactured with a Speedlok Integral Coupler, removing the need for separate couplers in the joining mechanism between cable ladder fittings and straight lengths of ladder. Fittings can be supplied without Integral Coupler if required.

All Flat Elbows will be supplied with all necessary fixings for fixing the elbow to the straight length.

The rungs are orientated with the open face uppermost to suit the use of cleats and similar cable restraint devices. This allows compliance with current recommendations for cable restraint, especially where cables are used which have a high potential fault current level.

WHEN JOINING ONE FITTING TO ANOTHER TO SUIT ON SITE INSTALLATION REQUIREMENTS THE USE OF A FITTING TO FITTING COUPLER (FFC) WILL BE REQUIRED. PLEASE REFER TO PG 73 FOR FURTHER DETAILS

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SPEEDWAY FLAT ELBOWS



The rungs in the Speedway Flat Elbows are located radially at either 0° or at 7 ° incremental angles (or multiples thereof) and are passed to give a maximum linear distance of no more than 465mm between adjacent rungs on adjacent Speedway Cable Ladder and Speedway Cable Ladder Fittings when measured along the outer radius.

The rungs are orientated with the open face uppermost to suit the use of cleats and similar cable restraint devices. This allows compliance with current recommendations for cable restraint, especially where cables are used which have a high potential fault current level.



Speedway 30° Flat Elbow



Speedway 60° Flat Elbow

The number of rungs shown in the Speedway Flat Elbows, left, are based on the standard 300mm wide and 300mm radius flat elbows. Refer to the dimensional information tables for the number of rungs for other widths and radii.



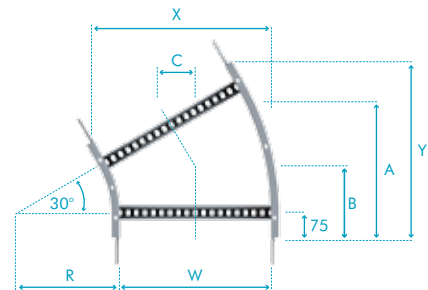
Speedway 45° Flat Elbow



Speedway 90° Flat Elbow

Speedway 30° Flat Elbows

Ref.FE30



Part Number	No of Rungs	Dimensions (mm)							Weight (kg)		
		R	W	A	B	C	X	Y	SW4	SW5	SW6
SW△/FE30/150/300/○	2	300	150	327	175	88	266	375	1.76	2.61	3.15
SW△/FE30/300/300/○	2		300	365	196	98	416	450	2.23	3.18	3.86
SW△/FE30/450/300/○	2		450	402	216	108	566	525	2.70	3.74	4.56
SW△/FE30/600/300/○	2		600	440	236	118	716	600	3.83	4.96	6.14
SW△/FE30/750/300/○	2		750	477	256	128	866	675	5.28	6.50	7.06
SW△/FE30/900/300/○	3		900	515	276	138	1016	750	6.08	7.39	7.99
SW△/FE30/1050/300/○	3		1050	552	296	148	1166	825	6.87	8.28	8.91
SW△/FE30/150/600/○	2	600	150	477	256	128	306	525	2.36	3.58	4.25
SW△/FE30/300/600/○	2		300	515	276	138	456	600	2.83	4.14	4.96
SW△/FE30/450/600/○	2		450	552	296	148	606	675	3.79	5.20	6.32
SW△/FE30/600/600/○	3		600	590	316	158	756	750	4.43	5.93	7.24
SW△/FE30/750/600/○	3		750	627	336	168	906	825	5.88	7.47	8.16
SW△/FE30/900/600/○	3		900	665	356	178	1056	900	6.68	8.36	9.09
SW△/FE30/1050/600/○	3		1050	702	376	188	1206	975	7.48	9.25	10.01

△ = Select a Ladder Type ○ = Select a Finish & Material

Weights shown are for standard hot dip galvanised finish only, for Stainless Steel and Silicon Rich Steel weight conversion factors please refer to the Speedway Technical Section of our catalogue (Page 96).

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 QUICKFIT CABLE LADDER

Finishes & Materials:



Supplied with:

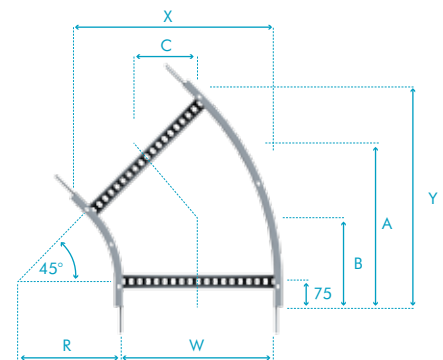


Not Required:



Speedway 45° Flat Elbows

Ref.FE45



Part Number	No of Rungs	Dimensions (mm)							Weight (kg)		
		R	W	A	B	C	X	Y	SW4	SW5	SW6
SW△/FE45/150/300/○	2	300	150	393	230	163	326	460	2.13	3.21	3.84
SW△/FE45/300/300/○	2		300	446	261	185	476	566	2.68	3.90	4.68
SW△/FE45/450/300/○	3		450	499	292	207	626	673	3.72	5.08	6.18
SW△/FE45/600/300/○	3		600	552	324	229	776	779	4.43	5.93	7.24
SW△/FE45/750/300/○	3		750	605	355	251	926	885	5.95	7.59	8.30
SW△/FE45/900/300/○	3		900	658	386	273	1076	991	6.83	8.60	9.36
SW△/FE45/1050/300/○	4		1050	711	417	295	1226	1097	9.22	11.12	11.94
SW△/FE45/150/600/○	3	600	150	605	355	251	413	673	3.20	4.83	5.71
SW△/FE45/300/600/○	3		300	658	386	273	563	779	3.91	5.68	6.77
SW△/FE45/450/600/○	3		450	711	417	295	713	885	4.62	6.53	7.83
SW△/FE45/600/600/○	3		600	764	448	317	863	991	5.33	7.38	8.89
SW△/FE45/750/600/○	4		750	817	479	339	1013	1097	7.94	10.12	11.04
SW△/FE45/900/600/○	4		900	870	510	361	1163	1203	9.03	11.35	12.31
SW△/FE45/1050/600/○	4		1050	924	541	383	1313	1309	10.12	12.58	13.59

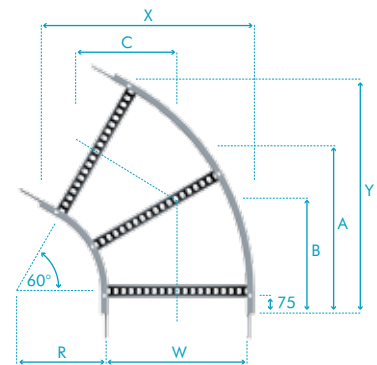
△= Select a Ladder Type ○= Select a Finish & Material

Weights shown are for standard hot dip galvanised finish only, for Stainless Steel and Silicon Rich Steel weight conversion factors please refer to the Speedway Technical Section of our catalogue (Page 96).



Speedway 60° Flat Elbows

Ref.FE60



Part Number	No of Rungs	Dimensions (mm)							Weight (kg)		
		R	W	A	B	C	X	Y	SW4	SW5	SW6
SW△/FE60/150/300/○	2	300	150	437	292	252	395	520	2.51	3.82	4.53
SW△/FE60/300/300/○	2		300	502	335	290	545	649	3.46	4.95	5.94
SW△/FE60/450/300/○	3		450	567	378	327	695	779	4.24	5.92	7.14
SW△/FE60/600/300/○	3		600	632	421	365	845	909	5.03	6.89	8.34
SW△/FE60/750/300/○	3		750	697	465	402	995	1039	8.79	10.84	11.70
SW△/FE60/900/300/○	5		900	762	508	440	1145	1169	10.18	12.40	13.34
SW△/FE60/1050/300/○	5		1050	827	551	477	1295	1299	11.56	13.97	14.97
SW△/FE60/150/600/○	3	600	150	697	465	402	545	779	3.87	5.92	6.95
SW△/FE60/300/600/○	3		300	762	508	440	695	909	4.66	6.89	8.15
SW△/FE60/450/600/○	3		450	827	551	477	845	1039	6.42	8.83	10.64
SW△/FE60/600/600/○	5		600	892	595	515	995	1169	7.53	10.13	12.28
SW△/FE60/750/600/○	5		750	957	638	552	1145	1299	10.00	12.78	13.91
SW△/FE60/900/600/○	5		900	1022	681	590	1295	1429	11.38	14.34	15.54
SW△/FE60/1050/600/○	5		1050	1087	725	627	1445	1559	12.76	15.91	17.17

△ = Select a Ladder Type ○ = Select a Finish & Material

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Finishes & Materials:



Supplied with:

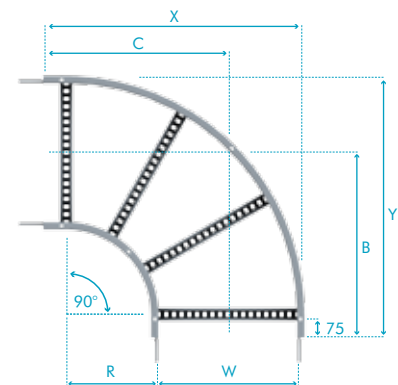


Not Required:



Speedway 90° Flat Elbows

Ref.FE90



Part Number	No of Rungs	Dimensions (mm)						Weight (kg)		
		R	W	B	C	X	Y	SW4	SW5	SW6
SW△/FE90/150/300/○	2	300	150	450	450	545	545	3.42	5.19	6.12
SW△/FE90/300/300/○	3		300	525	525	695	695	4.36	6.41	7.60
SW△/FE90/450/300/○	4		450	600	600	845	845	5.78	8.10	9.72
SW△/FE90/600/300/○	4		600	675	675	995	995	6.89	9.48	11.41
SW△/FE90/750/300/○	5		750	750	750	1145	1145	10.15	13.02	14.18
SW△/FE90/900/300/○	5		900	825	825	1295	1295	11.68	14.83	16.09
SW△/FE90/1050/300/○	7		1050	900	900	1445	1445	16.24	19.66	21.03
SW△/FE90/150/600/○	4	600	150	750	750	845	845	5.39	8.26	9.64
SW△/FE90/300/600/○	4		300	825	825	995	995	6.49	9.64	11.34
SW△/FE90/450/600/○	5		450	900	900	1145	1145	8.08	11.50	13.68
SW△/FE90/600/600/○	5		600	975	975	1295	1295	9.34	13.03	15.58
SW△/FE90/750/600/○	7		750	1050	1050	1445	1445	14.12	18.09	19.65
SW△/FE90/900/600/○	7		900	1125	1125	1595	1595	16.08	20.33	21.99
SW△/FE90/1050/600/○	7		1050	1200	1200	1745	1745	18.05	22.57	24.33

△= Select a Ladder Type ○= Select a Finish & Material

Weights shown are for standard hot dip galvanised finish only, for Stainless Steel and Silicon Rich Steel weight conversion factors please refer to the Speedway Technical Section of our catalogue (Page 96).

VANTRUNK
SPEEDLOK
QUICKFIT CABLE LADDER

Finishes & Materials:



Supplied with:



Not Required:





INSIDE & OUTSIDE RISERS

Speedway Inside Risers (IR) and Outside Risers (OR) are designed to create fixed angular non-coplanar connections between cable runs and can be used in both vertical and horizontal orientations.

Speedway Inside Risers (or vertical inside bends) create internal changes in direction; outside risers (or vertical outside bends) create external changes in direction.

Speedway Risers are available in widths from 150mm to 1050mm as standard. Speedway Risers are available with angles of 30°, 45°, 60° & 90° and in standard radii of 300mm, 450mm, 600mm, 750mm, 900mm, 1050mm & 1200mm. Other widths between 100mm to 1500mm and radii, subject to cable ladder type, are also available.

All Speedway Inside and Outside Risers are manufactured with a Speedlok Integral Coupler, removing the need for separate couplers in the joining mechanism between cable ladder fittings and straight lengths of ladder. All Speedway risers will be supplied with all necessary fixings.

The rungs are located at the intersection of adjacent facets and are orientated with the open face uppermost to suit the use of cleats and similar cable restraint devices. This allows compliance with current recommendations for cable restraint, especially where cables are used which have a high potential fault current level.

WHEN JOINING ONE FITTING TO ANOTHER TO SUIT ON SITE INSTALLATION REQUIREMENTS THE USE OF A FITTING TO FITTING COUPLER (FFC) WILL BE REQUIRED. PLEASE REFER TO PG 73 FOR FURTHER DETAILS

ACCREDITED TO THE
FOLLOWING STANDARD



SW4 / IR30 / 150 / 300 / CY
System Type Fitting Type Width Radius Finish

Speedway 30° Inside & Outside Risers

Ref.IR / OR / 30

Part Number	No. of Rungs	Dimensions (mm)					Weight (kg)
		Radius R mm	W	W1	X	Y	
SW4/IR30/150/300/○	1	300	150	190	145	203	1.00
SW4/IR30/300/300/○			300	340	145	203	1.16
SW4/IR30/450/300/○			450	490	145	203	1.32
SW4/IR30/600/300/○			600	640	145	203	1.49
SW4/IR30/750/300/○			750	790	145	203	1.92
SW4/IR30/900/300/○			900	940	145	203	2.14
SW4/IR30/1050/300/○			1050	1090	145	203	2.35
SW4/IR30/150/600/○	2	600	150	190	185	353	1.73
SW4/IR30/300/600/○			300	340	185	353	2.06
SW4/IR30/450/600/○			450	490	185	353	2.38
SW4/IR30/600/600/○			600	640	185	353	2.71
SW4/IR30/750/600/○			750	790	185	353	3.57
SW4/IR30/900/600/○			900	940	185	353	4.01
SW4/IR30/1050/600/○			1050	1090	185	353	4.44
Part Number	No. of Rungs	Radius R mm	Dimensions (mm)				Weight (kg)
			W	W1	X	Y	
SW5/IR30/150/300/○	1	300	150	200	165	213	1.52
SW5/IR30/300/300/○			300	350	165	213	1.68
SW5/IR30/450/300/○			450	500	165	213	1.85
SW5/IR30/600/300/○			600	650	165	213	2.01
SW5/IR30/750/300/○			750	800	165	213	2.44
SW5/IR30/900/300/○			900	950	165	213	2.66
SW5/IR30/1050/300/○			1050	1100	165	213	2.87
SW5/IR30/150/600/○	2	600	150	200	205	363	2.62
SW5/IR30/300/600/○			300	350	205	363	2.94
SW5/IR30/450/600/○			450	500	205	363	3.27
SW5/IR30/600/600/○			600	650	205	363	3.59
SW5/IR30/750/600/○			750	800	205	363	4.46
SW5/IR30/900/600/○			900	950	205	363	4.89
SW5/IR30/1050/600/○			1050	1100	205	363	5.32
Part Number	No. of Rungs	Radius R mm	Dimensions (mm)				Weight (kg)
			W	W1	X	Y	
SW6/IR30/150/300/○	1	300	150	200	190	225	1.92
SW6/IR30/300/300/○			300	350	190	225	2.13
SW6/IR30/450/300/○			450	500	190	225	2.35
SW6/IR30/600/300/○			600	650	190	225	2.56
SW6/IR30/750/300/○			750	800	190	225	2.78
SW6/IR30/900/300/○			900	950	190	225	3.00
SW6/IR30/1050/300/○			1050	1100	190	225	3.21
SW6/IR30/150/600/○	2	600	150	200	230	375	3.17
SW6/IR30/300/600/○			300	350	230	375	3.61
SW6/IR30/450/600/○			450	500	230	375	4.04
SW6/IR30/600/600/○			600	650	230	375	4.47
SW6/IR30/750/600/○			750	800	230	375	4.90
SW6/IR30/900/600/○			900	950	230	375	5.34
SW6/IR30/1050/600/○			1050	1100	230	375	5.77

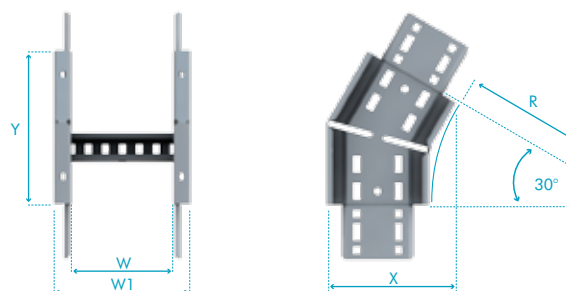
○ = Select a Finish & Material



Speedway 30° Inside Riser



Speedway 30° Outside Riser



Finishes & Materials:



Supplied with:



Not Required:



VANTRUNK
SPEEDLOK
QUICKFIT CABLE LADDER

Weights shown are for standard hot dip galvanised finish only, for Stainless Steel and Silicon Rich Steel weight conversion factors please refer to the Speedway Technical Section of our catalogue (Page 96).

Speedway 45° Inside & Outside Risers

Ref. IR / OR / 45

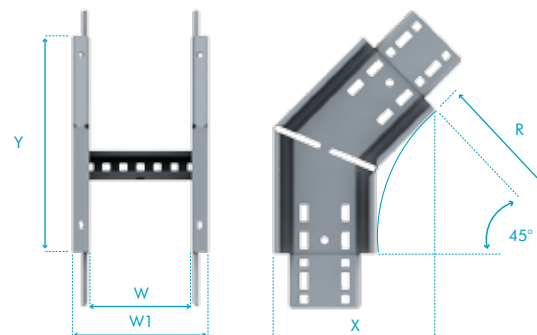
Part Number	No. of Rungs	Dimensions (mm)					Weight (kg)
		Radius R mm	W	W1	X	Y	
SW4/IR45/150/300/○	1	300	150	190	193	286	1.33
SW4/IR45/300/300/○			300	340	193	286	1.50
SW4/IR45/450/300/○			450	490	193	286	1.66
SW4/IR45/600/300/○			600	640	193	286	1.82
SW4/IR45/750/300/○			750	790	193	286	2.25
SW4/IR45/900/300/○			900	940	193	286	2.47
SW4/IR45/1050/300/○			1050	1090	193	286	2.69
SW4/IR45/150/600/○	2	600	150	190	281	499	2.41
SW4/IR45/300/600/○			300	340	281	499	2.73
SW4/IR45/450/600/○			450	490	281	499	3.06
SW4/IR45/600/600/○			600	640	281	499	3.38
SW4/IR45/750/600/○			750	790	281	499	4.25
SW4/IR45/900/600/○			900	940	281	499	4.68
SW4/IR45/1050/600/○			1050	1090	281	499	5.11
Part Number	No. of Rungs	Dimensions (mm)					Weight (kg)
		Radius R mm	W	W1	X	Y	
SW5/IR45/150/300/○	1	300	150	200	213	301	2.53
SW5/IR45/300/300/○			300	350	213	301	2.85
SW5/IR45/450/300/○			450	500	213	301	3.18
SW5/IR45/600/300/○			600	650	213	301	3.50
SW5/IR45/750/300/○			750	794	213	301	4.37
SW5/IR45/900/300/○			900	950	213	301	4.80
SW5/IR45/1050/300/○			1050	1094	213	301	5.23
SW5/IR45/150/600/○	2	600	150	200	301	513	4.20
SW5/IR45/300/600/○			300	350	301	513	4.53
SW5/IR45/450/600/○			450	500	301	513	4.85
SW5/IR45/600/600/○			600	650	301	513	5.18
SW5/IR45/750/600/○			750	794	301	513	6.04
SW5/IR45/900/600/○			900	950	301	513	6.48
SW5/IR45/1050/600/○			1050	1094	301	513	6.91
Part Number	No. of Rungs	Dimensions (mm)					Weight (kg)
		Radius R mm	W	W1	X	Y	
SW6/IR45/150/300/○	1	300	150	200	238	318	2.79
SW6/IR45/300/300/○			300	350	238	318	3.22
SW6/IR45/450/300/○			450	500	238	318	3.66
SW6/IR45/600/300/○			600	650	238	318	4.09
SW6/IR45/750/300/○			750	794	238	318	4.52
SW6/IR45/900/300/○			900	950	238	318	4.95
SW6/IR45/1050/300/○			1050	1094	238	318	5.39
SW6/IR45/150/600/○	2	600	150	200	326	530	4.47
SW6/IR45/300/600/○			300	350	326	530	4.90
SW6/IR45/450/600/○			450	500	326	530	5.33
SW6/IR45/600/600/○			600	650	326	530	5.76
SW6/IR45/750/600/○			750	794	326	530	6.20
SW6/IR45/900/600/○			900	950	326	530	6.63
SW6/IR45/1050/600/○			1050	1094	326	530	7.06



Speedway 45° Inside Riser



Speedway 45° Outside Riser



Finishes & Materials:



Supplied with:



x16

Not Required:



VANTRUNK
SPEEDLOK
QUICKFIT CABLE LADDER

Weights shown are for standard hot dip galvanised finish only, for Stainless Steel and Silicon Rich Steel weight conversion factors please refer to the Speedway Technical Section of our catalogue (Page 96).

48 ○ = Select a Finish & Material

Speedway 60° Inside & Outside Risers

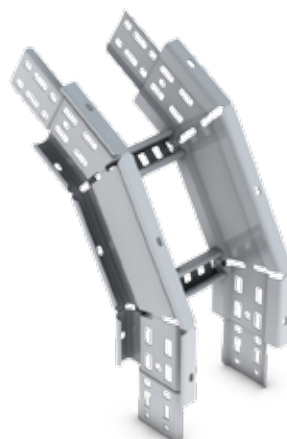
Ref.IR / OR / 60

Part Number	No. of Rungs	Dimensions (mm)					Weight (kg)
		Radius R mm	W	W1	X	Y	
SW4/IR60/150/300/○	2	300	150	190	255	351	1.87
SW4/IR60/300/300/○			300	340	255	351	2.20
SW4/IR60/450/300/○			450	490	255	351	2.52
SW4/IR60/600/300/○			600	640	255	351	2.85
SW4/IR60/750/300/○			750	790	255	351	3.71
SW4/IR60/900/300/○			900	940	255	351	4.14
SW4/IR60/1050/300/○			1050	1090	255	351	4.58
SW4/IR60/150/600/○	3	600	150	190	405	611	3.21
SW4/IR60/300/600/○			300	340	405	611	3.70
SW4/IR60/450/600/○			450	490	405	611	4.19
SW4/IR60/600/600/○			600	640	405	611	4.67
SW4/IR60/750/600/○			750	790	405	611	5.97
SW4/IR60/900/600/○			900	940	405	611	6.62
SW4/IR60/1050/600/○			1050	1090	405	611	7.27
Part Number	No. of Rungs	Dimensions (mm)					Weight (kg)
		Radius R mm	W	W1	X	Y	
SW5/IR60/150/300/○	2	300	150	200	275	368	2.97
SW5/IR60/300/300/○			300	350	275	368	3.29
SW5/IR60/450/300/○			450	500	275	368	3.62
SW5/IR60/600/300/○			600	650	275	368	3.94
SW5/IR60/750/300/○			750	800	275	368	4.80
SW5/IR60/900/300/○			900	950	275	368	5.24
SW5/IR60/1050/300/○			1050	1100	275	368	5.67
SW5/IR60/150/600/○	3	600	150	200	425	628	4.93
SW5/IR60/300/600/○			300	350	425	628	5.42
SW5/IR60/450/600/○			450	500	425	628	5.90
SW5/IR60/600/600/○			600	650	425	628	6.39
SW5/IR60/750/600/○			750	800	425	628	7.69
SW5/IR60/900/600/○			900	950	425	628	8.34
SW5/IR60/1050/600/○			1050	1100	425	628	8.98
Part Number	No. of Rungs	Dimensions (mm)					Weight (kg)
		Radius R mm	W	W1	X	Y	
SW6/IR60/150/300/○	2	300	150	200	300	390	3.51
SW6/IR60/300/300/○			300	350	300	390	3.95
SW6/IR60/450/300/○			450	500	300	390	4.38
SW6/IR60/600/300/○			600	650	300	390	4.81
SW6/IR60/750/300/○			750	800	300	390	5.24
SW6/IR60/900/300/○			900	950	300	390	5.68
SW6/IR60/1050/300/○			1050	1100	300	390	6.11
SW6/IR60/150/600/○	3	600	150	200	450	650	5.88
SW6/IR60/300/600/○			300	350	450	650	6.52
SW6/IR60/450/600/○			450	500	450	650	7.17
SW6/IR60/600/600/○			600	650	450	650	7.82
SW6/IR60/750/600/○			750	800	450	650	8.47
SW6/IR60/900/600/○			900	950	450	650	9.12
SW6/IR60/1050/600/○			1050	1100	450	650	9.77

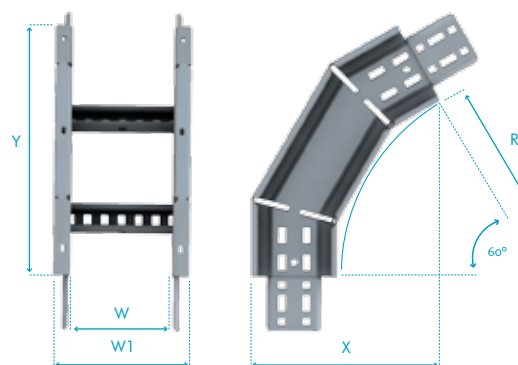
○ = Select a Finish & Material



Speedway 60° Inside Riser



Speedway 60° Outside Riser



Finishes & Materials:



Supplied with:



Not Required:



VANTRUNK
SPEEDLOK
QUICKFIT CABLE LADDER

Weights shown are for standard hot dip galvanised finish only, for Stainless Steel and Silicon Rich Steel weight conversion factors please refer to the Speedway Technical Section of our catalogue (Page 96).

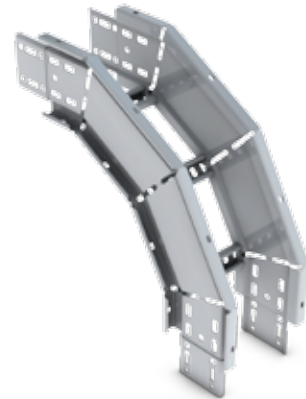
Speedway 90° Inside & Outside Risers

Ref. IR / OR / 90

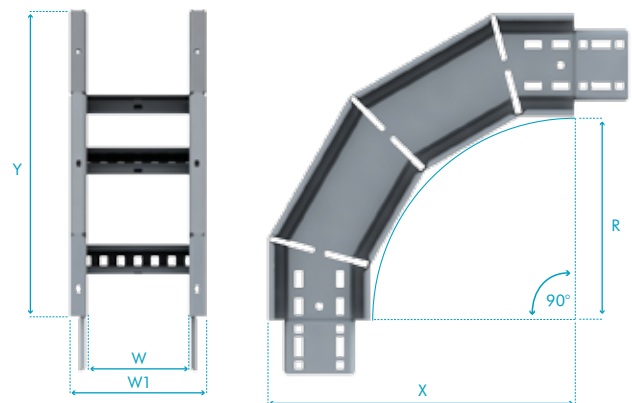
Part Number	No. of Rungs	Dimensions (mm)					Weight (kg)
		Radius R mm	W	W1	X	Y	
SW4/IR90/150/300/○	3	300	150	190	405	405	2.75
SW4/IR90/300/300/○			300	340	405	405	3.23
SW4/IR90/450/300/○			450	490	405	405	3.72
SW4/IR90/600/300/○			600	640	405	405	4.21
SW4/IR90/750/300/○			750	790	405	405	5.50
SW4/IR90/900/300/○			900	940	405	405	6.15
SW4/IR90/1050/300/○			1050	1090	405	405	6.80
SW4/IR90/150/600/○	4	600	150	190	705	705	4.69
SW4/IR90/300/600/○			300	340	705	705	5.34
SW4/IR90/450/600/○			450	490	705	705	5.99
SW4/IR90/600/600/○			600	640	705	705	6.64
SW4/IR90/750/600/○			750	790	705	705	8.37
SW4/IR90/900/600/○			900	940	705	705	9.23
SW4/IR90/1050/600/○			1050	1090	705	705	10.1
Part Number	No. of Rungs	Dimensions (mm)					Weight (kg)
		Radius R mm	W	W1	X	Y	
SW5/IR90/150/300/○	3	300	150	200	425	425	4.20
SW5/IR90/300/300/○			300	350	425	425	4.69
SW5/IR90/450/300/○			450	500	425	425	5.18
SW5/IR90/600/300/○			600	650	425	425	5.66
SW5/IR90/750/300/○			750	800	425	425	6.96
SW5/IR90/900/300/○			900	950	425	425	7.61
SW5/IR90/1050/300/○			1050	1100	425	425	8.26
SW5/IR90/150/600/○	4	600	150	200	725	725	7.25
SW5/IR90/300/600/○			300	350	725	725	7.90
SW5/IR90/450/600/○			450	500	725	725	8.54
SW5/IR90/600/600/○			600	650	725	725	9.19
SW5/IR90/750/600/○			750	800	725	725	10.92
SW5/IR90/900/600/○			900	950	725	725	11.79
SW5/IR90/1050/600/○			1050	1100	725	725	12.65
Part Number	No. of Rungs	Dimensions (mm)					Weight (kg)
		Radius R mm	W	W1	X	Y	
SW6/IR90/150/300/○	3	300	150	200	450	450	5.11
SW6/IR90/300/300/○			300	350	450	450	5.76
SW6/IR90/450/300/○			450	500	450	450	6.41
SW6/IR90/600/300/○			600	650	450	450	7.06
SW6/IR90/750/300/○			750	800	450	450	7.71
SW6/IR90/900/300/○			900	950	450	450	8.36
SW6/IR90/1050/300/○			1050	1100	450	450	9.01
SW6/IR90/150/600/○	4	600	150	200	750	750	8.62
SW6/IR90/300/600/○			300	350	750	750	9.48
SW6/IR90/450/600/○			450	500	750	750	10.35
SW6/IR90/600/600/○			600	650	750	750	11.21
SW6/IR90/750/600/○			750	800	750	750	12.08
SW6/IR90/900/600/○			900	950	750	750	12.94
SW6/IR90/1050/600/○			1050	1100	750	750	13.81



Speedway 90° Inside Riser



Speedway 90° Outside Riser



Finishes & Materials:



Supplied with:



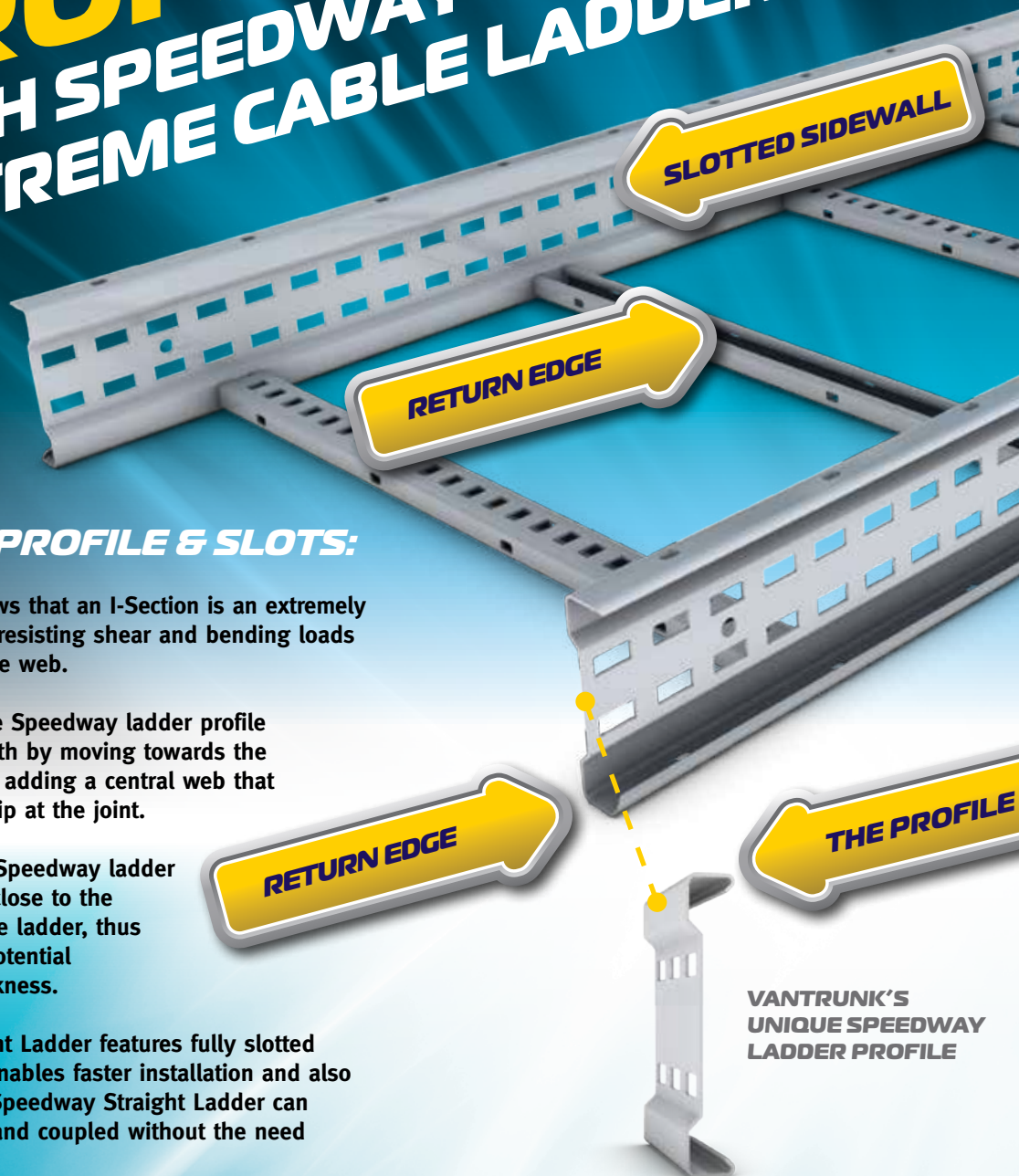
Not Required:



VANTRUNK
SPEEDLOK
QUICKFIT CABLE LADDER

Weights shown are for standard hot dip galvanised finish only, for Stainless Steel and Silicon Rich Steel weight conversion factors please refer to the Speedway Technical Section of our catalogue (Page 96).

UPDATE YOUR PROFILE WITH SPEEDWAY EXTREME CABLE LADDER



LADDER PROFILE & SLOTS:

- Beam theory shows that an I-Section is an extremely efficient form for resisting shear and bending loads in the plane of the web.
- Vantrunk's unique Speedway ladder profile maximizes strength by moving towards the I-Beam profile by adding a central web that also minimises slip at the joint.
- The slots on the Speedway ladder side are located close to the centre point of the ladder, thus eliminating the potential for localized weakness.
- Speedway Straight Ladder features fully slotted stringers which enables faster installation and also reduces weight. Speedway Straight Ladder can be cut to length and coupled without the need for drilling.
- The Speedway Cable Ladder features a returned profile edge which prevents damage to cables and installers.

For more information on the
Speedway Extreme Cable Ladder
visit vantrunk.com



VANTRUNK
SPEEDWAY®
EXTREME CABLE LADDER

51

visit online at vantrunk.com



ARTICULATED RISERS

Speedway Articulated Risers (AR) are designed to create adjustable angular non-coplanar connections between Speedway Cable runs and can be used in both vertical and horizontal orientations.

Speedway Articulated Risers consist of pre-assembled units, each comprising of end connectors and one or more middle sections which can be adjusted on site to suit specific installation requirements.

The articulated riser has a number of advantages over fixed risers:

- universal application – there is no requirement to select both inside and outside risers.
- any number of middle sections can be added to achieve very large radii and allow strong support along an undulating cable route.
- the pattern of fixing holes allows for infinite angle and radius adjustment.
- can be used to form a bridge, an 'S' bend, or an offset to suit installation routing challenges on site.
- the end connectors are vertical adjustable couplers and, by using the easi-bend slots, can be adjusted on site to create combined horizontal & vertical offset connections, or combined riser/tee connections onto the side wall of a main cable ladder run.

Speedway Articulated Risers are available in widths from 150mm to 1050mm as standard. Other widths between 100mm to 1500mm are also available subject to cable ladder type.

Intended to be locked into place after installation, the Speedway Articulated Riser is not designed to allow for relative movement between adjacent cable runs.

WHEN JOINING ONE FITTING TO ANOTHER TO SUIT ON SITE INSTALLATION REQUIREMENTS THE USE OF A FITTING TO FITTING COUPLER (FFC) WILL BE REQUIRED. PLEASE REFER TO PG 73 FOR FURTHER DETAILS



SW45 / AR2 / 300 / GA
System Type Fitting Type Ladder Width Finish

**** Articulated risers for Speedway SW4 & SW5 are common. Use reference code: SW45**

Articulated Risers

Ref.AR (See table)

The following table shows the combination of angle and radius which can be formed for a number of differing middle sections. The radius for both the inside and outside articulated riser is measured relative to the rung position.

Angle & Section Details

DIA: A	Part Number	Angle	No. of Sections	Radius R mm			
				Inside Articulated Risers		Outside Articulated Risers	
				SW4 & SW5	SW6	SW4 & SW5	SW6
	SWΔ/AR1/□/○	30	1	1148	1160	1070	1058
	SWΔ/AR2/□/○		2	1718	1731	1640	1628
	SWΔ/AR3/□/○		3	2327	2340	2250	2237
	SWΔ/AR1/□/○	45	1	781	793	737	724
	SWΔ/AR2/□/○		2	1163	1176	1122	1109
	SWΔ/AR3/□/○		3	1562	1574	1484	1472
	SWΔ/AR4/□/○		4	1945	1957	1867	1855
	SWΔ/AR1/□/○	60	1	592	605	514	502
	SWΔ/AR2/□/○		2	882	894	804	791
	SWΔ/AR3/□/○		3	1178	1191	1100	1088
	SWΔ/AR4/□/○		4	1466	1479	1388	1376
	SWΔ/AR5/□/○		5	1753	1766	1676	1663
	SWΔ/AR6/□/○		6	2041	2053	1963	1950
	SWΔ/AR1/□/○	90	1	399	411	330	318
	SWΔ/AR2/□/○		2	596	608	527	515
	SWΔ/AR3/□/○		3	793	806	715	703
	SWΔ/AR4/□/○		4	986	998	908	896
	SWΔ/AR5/□/○		5	1178	1191	1100	1088
	SWΔ/AR6/□/○		6	1370	1383	1292	1280
	SWΔ/AR7/□/○		7	1562	1574	1484	1472
	SWΔ/AR8/□/○		8	1753	1766	1676	1663

Δ = Select a Ladder Type □ = Select a Ladder Width ○ = Select a Finish & Material

Bridge Dimensions

When using the Speedway Articulated Riser as a bridge the following dimensions should be used as a guide.

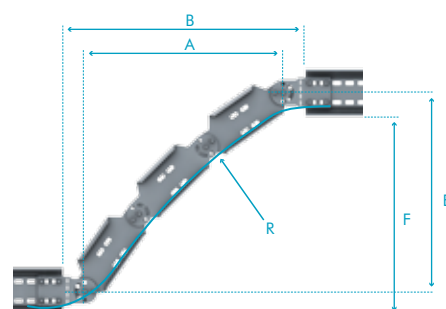
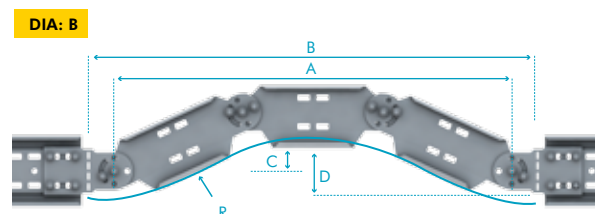
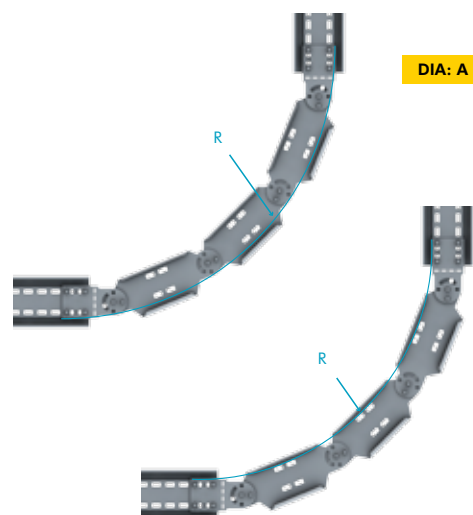
DIA: B	Part Number	Radius R (mm)	No. of Sections	A (mm)	B (mm)	C (mm)	D (mm)	
							SW4/5	SW6
	SWΔ/AR3/□/○	300	3	715	855	165	204	216
	SWΔ/AR3/□/○	450	3	801	941	113	152	164
	SWΔ/AR4/□/○		4	961	1101	242	251	293
	SWΔ/AR3/□/○	600	3	840	980	80	118	131

Vertical Offset Dimensions

The following table gives the maximum horizontal and vertical offsets which can be achieved for articulated risers with 1 to 4 sections whilst maintaining a radius of 300mm relative to the rung position.

DIA: C	Part Number	Radius R (mm)	No. of Sections	A (mm)	B (mm)	E (mm)	F (mm)	
							SW4/5	SW6
	SWΔ/AR1/□/○	300	1	216	356	208	183	208
	SWΔ/AR2/□/○		2	399	539	441	416	441
	SWΔ/AR3/□/○		3	600	740	663	638	663
	SWΔ/AR4/□/○		4	823	963	865	840	865

Δ = Select a Ladder Type □ = Select a Ladder Width ○ = Select a Finish & Material



Finishes & Materials:



Supplied with:



Not Required:



Consult our Technical Team for further offset dimensional information and guidance in the selection of the correct number of middle sections.



EQUAL & UNEQUAL TEES

Speedway Equal Tees (ET) and Unequal Tees (UT) are designed to create perpendicular coplanar connections between horizontal cable runs (ladder installed in horizontal plane) and between vertical cable runs (ladder installed in vertical plane).

Speedway Tees are available in widths from 150mm to 1050mm as standard. Speedway tees are available with standard radii of 300mm, 450mm, 600mm, 750mm, 900mm, 1050mm & 1200mm. Other widths between 100mm to 1500mm and radii, subject to cable ladder type, are also available.

The Speedway Tee radial side walls are manufactured with a repeatable and true radius which eliminates the traditional approach of 'make it fit' during installation.

All Speedway Tees are now manufactured with a Speedlok Integral Coupler, removing the need for separate couplers in the joining mechanism between cable ladder fittings and straight lengths of ladder. All Speedway Tees will be supplied with all necessary fixings.

The rungs in the Speedway Tees are spaced to give a maximum linear distance of no more than 465mm between adjacent rungs/rungs on adjacent ladder and fittings. The rungs are orientated with the open face uppermost to suit the use of cleats and similar cable restraint devices. This allows compliance with current recommendations for cable restraint, especially where cables are used which have a high potential fault current level.

Tees have a primary or main width (Wm) and a secondary or branch width (Wb). Tees with the same primary and secondary widths are called equal tees. Tees with differing main and branch widths are called unequal tees.

WHEN JOINING ONE FITTING TO ANOTHER TO SUIT ON SITE INSTALLATION REQUIREMENTS THE USE OF A FITTING TO FITTING COUPLER (FFC) WILL BE REQUIRED. PLEASE REFER TO PG 73 FOR FURTHER DETAILS

ACCREDITED TO THE
FOLLOWING STANDARD



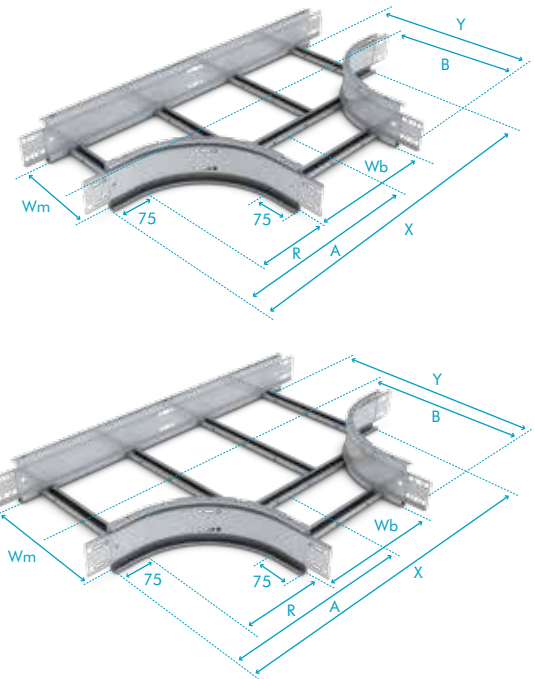
Speedway 300mm Radius Tees

Ref.UT (Unequal Tee)

Ref.ET (Equal Tee)

Part Number	Type	Dimensions (mm)							Weight (kg)		
		R	Wm	Wb	A	B	X	Y	SW4	SW5	SW6
SWΔ/ET/150/300/○	150mm Branch	300	150	150	450	450	900	550	5.41	7.97	9.44
SWΔ/UT/300/150/300/○			300	150	450	525	900	700	5.90	8.45	10.09
SWΔ/UT/450/150/300/○			450	150	450	600	900	850	6.39	8.94	10.74
SWΔ/UT/600/150/300/○			600	150	450	675	900	1000	6.87	9.43	11.39
SWΔ/UT/750/150/300/○			750	150	450	750	900	1150	8.38	10.93	12.04
SWΔ/UT/900/150/300/○			900	150	450	825	900	1300	9.03	11.58	12.69
SWΔ/UT/1050/150/300/○			1050	150	450	900	900	1450	9.68	12.23	13.34
SWΔ/UT/150/300/300/○	300mm Branch	300	150	300	525	450	1050	550	6.03	8.75	10.40
SWΔ/ET/300/300/○			300	300	525	525	1050	700	6.51	9.24	11.05
SWΔ/UT/450/300/300/○			450	300	525	600	1050	850	7.00	9.73	11.70
SWΔ/UT/600/300/300/○			600	300	525	675	1050	1000	7.49	10.21	12.35
SWΔ/UT/750/300/300/○			750	300	525	750	1050	1150	9.10	11.83	13.00
SWΔ/UT/900/300/300/○			900	300	525	825	1050	1300	9.75	12.48	13.65
SWΔ/UT/1050/300/300/○			1050	300	525	900	1050	1450	10.40	13.13	14.30
SWΔ/UT/150/450/300/○	450mm Branch	300	150	450	600	450	1200	550	6.87	9.77	11.67
SWΔ/UT/300/450/300/○			300	450	600	525	1200	700	7.52	10.42	12.54
SWΔ/ET/450/300/○			450	450	600	600	1200	850	8.17	11.07	13.40
SWΔ/UT/600/450/300/○			600	450	600	675	1200	1000	8.82	11.72	14.27
SWΔ/UT/750/450/300/○			750	450	600	750	1200	1150	11.00	13.90	15.13
SWΔ/UT/900/450/300/○			900	450	600	825	1200	1300	11.86	14.77	16.00
SWΔ/UT/1050/450/300/○			1050	450	600	900	1200	1450	12.73	15.63	16.86
SWΔ/UT/150/600/300/○	600mm Branch	300	150	600	675	450	1350	550	7.48	10.56	12.63
SWΔ/UT/300/600/300/○			300	600	675	525	1350	700	8.13	11.21	13.50
SWΔ/UT/450/600/300/○			450	600	675	600	1350	850	8.78	11.86	14.36
SWΔ/ET/600/300/○			600	600	675	675	1350	1000	9.43	12.51	15.23
SWΔ/UT/750/600/300/○			750	600	675	750	1350	1150	11.72	14.80	16.09
SWΔ/UT/900/600/300/○			900	600	675	825	1350	1300	12.58	15.66	16.96
SWΔ/UT/1050/600/300/○			1050	600	675	900	1350	1450	13.45	16.53	17.82
SWΔ/UT/150/750/300/○	750mm Branch	300	150	750	750	450	1500	550	8.98	12.23	13.59
SWΔ/UT/300/750/300/○			300	750	750	525	1500	700	9.84	13.10	14.46
SWΔ/UT/450/750/300/○			450	750	750	600	1500	850	10.71	13.96	15.32
SWΔ/UT/600/750/300/○			600	750	750	675	1500	1000	11.57	14.83	16.19
SWΔ/ET/750/300/○			750	750	750	750	1500	1150	12.44	15.69	17.05
SWΔ/UT/900/750/300/○			900	750	750	825	1500	1300	13.30	16.56	17.92
SWΔ/UT/1050/750/300/○			1050	750	750	900	1500	1450	14.17	17.42	18.78
SWΔ/UT/150/900/300/○	900mm Branch	300	150	900	825	450	1650	550	10.01	13.44	14.86
SWΔ/UT/300/900/300/○			300	900	825	525	1650	700	11.09	14.52	15.94
SWΔ/UT/450/900/300/○			450	900	825	600	1650	850	12.17	15.60	17.03
SWΔ/UT/600/900/300/○			600	900	825	675	1650	1000	13.26	16.68	18.11
SWΔ/UT/750/900/300/○			750	900	825	750	1650	1150	14.34	17.76	19.19
SWΔ/ET/900/300/○			900	900	825	825	1650	1300	15.42	18.84	20.27
SWΔ/UT/1050/900/300/○			1050	900	825	900	1650	1450	16.50	19.93	21.35
SWΔ/UT/150/1050/300/○	1050mm Branch	300	150	1050	900	450	1800	550	10.73	14.33	15.82
SWΔ/UT/300/1050/300/○			300	1050	900	525	1800	700	11.81	15.41	16.90
SWΔ/UT/450/1050/300/○			450	1050	900	600	1800	850	12.89	16.50	17.99
SWΔ/UT/600/1050/300/○			600	1050	900	675	1800	1000	13.98	17.58	19.07
SWΔ/UT/750/1050/300/○			750	1050	900	750	1800	1150	15.06	18.66	20.15
SWΔ/UT/900/1050/300/○			900	1050	900	825	1800	1300	16.14	19.74	21.23
SWΔ/ET/1050/300/○			1050	1050	900	900	1800	1450	17.22	20.82	22.31

△ = Select a Ladder Type ○ = Select a Finish & Material



VANTRUNK
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Finishes & Materials:



Supplied with:



Not Required:



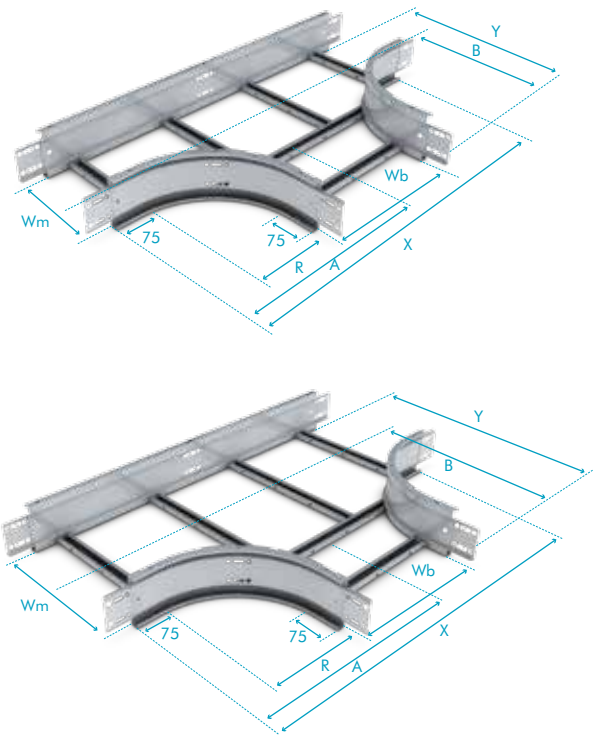
Weights shown are for standard hot dip galvanised finish only, for Stainless Steel and Silicon Rich Steel weight conversion factors please refer to the Speedway Technical Section of our catalogue (Page 96).

Speedway 600mm Radius Tees

Ref.UT (Unequal Tee) ET (Equal Tee)

Part Number	Type	Dimensions (mm)							Weight (kg)		
		R	Wm	Wb	A	B	X	Y	SW4	SW5	SW6
SW△/ET/150/600/○	150mm Branch	600	150	150	750	750	1500	850	8.98	13.34	15.68
SW△/UT/300/150/600/○			300	150	750	825	1500	1000	9.63	13.98	16.54
SW△/UT/450/150/600/○			450	150	750	900	1500	1150	10.28	14.63	17.41
SW△/UT/600/150/600/○			600	150	750	975	1500	1300	10.93	15.28	18.27
SW△/UT/750/150/600/○			750	150	750	1050	1500	1450	13.02	17.37	19.14
SW△/UT/900/150/600/○			900	150	750	1125	1500	1600	13.89	18.24	20.00
SW△/UT/1050/150/600/○			1050	150	750	1200	1500	1750	14.75	19.10	20.87
SW△/UT/150/300/600/○	300mm Branch	600	150	300	825	750	1650	850	9.93	14.45	17.07
SW△/ET/300/600/○			300	300	825	825	1650	1000	10.74	15.26	18.15
SW△/UT/450/300/600/○			450	300	825	900	1650	1150	11.55	16.07	19.24
SW△/UT/600/300/600/○			600	300	825	975	1650	1300	12.36	16.88	20.32
SW△/UT/750/300/600/○			750	300	825	1050	1650	1450	15.05	19.57	21.40
SW△/UT/900/300/600/○			900	300	825	1125	1650	1600	16.13	20.65	22.48
SW△/UT/1050/300/600/○			1050	300	825	1200	1650	1750	17.21	21.73	23.56
SW△/UT/150/450/600/○	450mm Branch	600	150	450	900	750	1800	850	10.54	15.24	18.03
SW△/UT/300/450/600/○			300	450	900	825	1800	1000	11.35	16.05	19.11
SW△/ET/450/600/○			450	450	900	900	1800	1150	12.16	16.86	20.19
SW△/UT/600/450/600/○			600	450	900	975	1800	1300	12.97	17.67	21.28
SW△/UT/750/450/600/○			750	450	900	1050	1800	1450	15.77	20.47	22.36
SW△/UT/900/450/600/○			900	450	900	1125	1800	1600	16.85	21.55	23.44
SW△/UT/1050/450/600/○			1050	450	900	1200	1800	1750	17.93	22.63	24.52
SW△/UT/150/600/600/○	600mm Branch	600	150	600	975	750	1950	850	11.15	16.03	18.99
SW△/UT/300/600/600/○			300	600	975	825	1950	1000	11.96	16.84	20.07
SW△/UT/450/600/600/○			450	600	975	900	1950	1150	12.77	17.65	21.15
SW△/ET/600/600/○			600	600	975	975	1950	1300	13.58	18.46	22.23
SW△/UT/750/600/600/○			750	600	975	1050	1950	1450	16.49	21.36	23.32
SW△/UT/900/600/600/○			900	600	975	1125	1950	1600	17.57	22.44	24.40
SW△/UT/1050/600/600/○			1050	600	975	1200	1950	1750	18.65	23.52	25.48
SW△/UT/150/750/600/○	750mm Branch	600	150	750	1050	750	2100	850	13.32	18.37	20.39
SW△/UT/300/750/600/○			300	750	1050	825	2100	1000	14.62	19.67	21.69
SW△/UT/450/750/600/○			450	750	1050	900	2100	1150	15.92	20.97	22.98
SW△/UT/600/750/600/○			600	750	1050	975	2100	1300	17.21	22.26	24.28
SW△/ET/750/600/○			750	750	1050	1050	2100	1450	18.51	23.56	25.58
SW△/UT/900/750/600/○			900	750	1050	1125	2100	1600	19.81	24.86	26.88
SW△/UT/1050/750/600/○			1050	750	1050	1200	2100	1750	21.11	26.16	28.17
SW△/UT/150/900/600/○	900mm Branch	600	150	900	1125	750	2250	850	14.04	19.27	21.35
SW△/UT/300/900/600/○			300	900	1125	825	2250	1000	15.34	20.56	22.65
SW△/UT/450/900/600/○			450	900	1125	900	2250	1150	16.63	21.86	23.94
SW△/UT/600/900/600/○			600	900	1125	975	2250	1300	17.93	23.16	25.24
SW△/UT/750/900/600/○			750	900	1125	1050	2250	1450	19.23	24.46	26.54
SW△/ET/900/600/○			900	900	1125	1125	2250	1600	20.53	25.75	27.84
SW△/UT/1050/900/600/○			1050	900	1125	1200	2250	1750	21.82	27.05	29.13
SW△/UT/150/1050/600/○	1050mm Branch	600	150	1050	1200	750	2400	850	14.76	20.16	22.31
SW△/UT/300/1050/600/○			300	1050	1200	825	2400	1000	16.06	21.46	23.60
SW△/UT/450/1050/600/○			450	1050	1200	900	2400	1150	17.35	22.76	24.90
SW△/UT/600/1050/600/○			600	1050	1200	975	2400	1300	18.65	24.05	26.20
SW△/UT/750/1050/600/○			750	1050	1200	1050	2400	1450	19.95	25.35	27.50
SW△/UT/900/1050/600/○			900	1050	1200	1125	2400	1600	21.25	26.65	28.79
SW△/ET/1050/600/○			1050	1050	1200	1200	2400	1750	22.54	27.95	30.09

△ = Select a Ladder Type ○ = Select a Finish & Material



VANTRUNK
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 QUICKFIT CABLE LADDER

Finishes & Materials:



Supplied with:



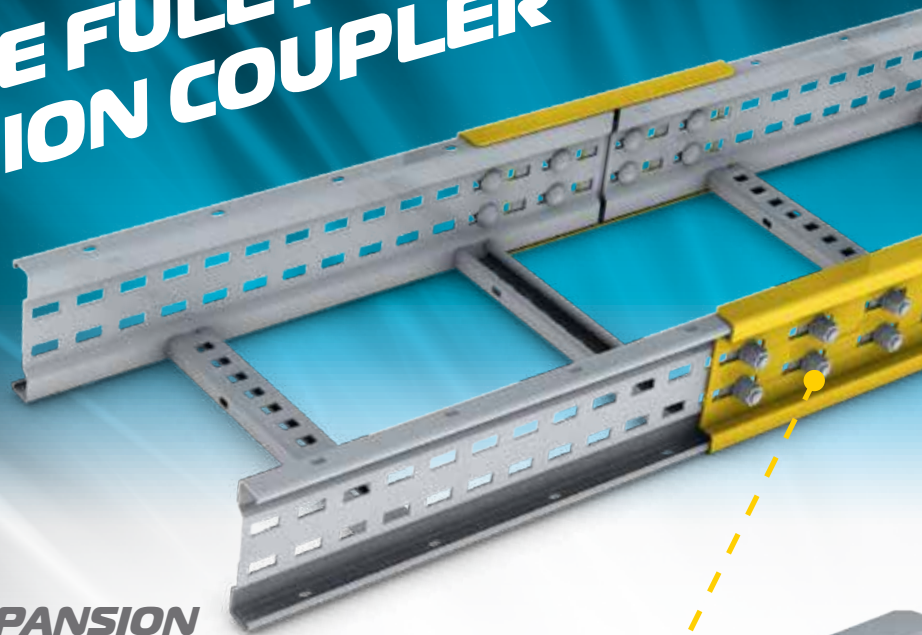
Not Required:



Weights shown are for standard hot dip galvanised finish only, for Stainless Steel and Silicon Rich Steel weight conversion factors please refer to the Speedway Technical Section of our catalogue (Page 96).

EXPAND YOUR HORIZONS

WITH THE FULL MOMENT EXPANSION COUPLER



FULL MOMENT EXPANSION COUPLER FEATURES:

Vantrunk (FME) Full Moment Expansion Coupler gives several unique features when used on an installation:

- Increases the maximum movement due to temperature expansion from 28mm to 75mm therefore reducing the number of expansion couplers.
- Can carry a heavier cable load and does not need the cable ladder to be supported 600mm either side of the expansion joint.
- Due to the extra strength and rigidity of a ladder joint using Full Moment Expansion couplers, these can be used in situations where very heavy cable ladder loading would increase the deflection if a standard coupler was used.

For more information on the Full Moment Expansion Coupler visit vantrunk.com



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EXTREME CABLE LADDER

57

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Couplers

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Accessories

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Fixings

Bespoke

Technical

Index



CROSSES

Speedway Crosses (EC) are designed to create intersecting coplanar connections between horizontal cable runs (ladder installed in horizontal plane) and between vertical cable runs (ladder installed in vertical plane).

Speedway Crosses are available in widths from 150mm to 1050mm as standard. Speedway Crosses are available with standard radii of 300mm, 450mm, 600mm, 750mm, 900mm, 1050mm & 1200mm. Other widths between 100mm to 1500mm and radii, subject to cable ladder type, are also available.

The Speedway Cross is manufactured with a repeatable and true radius which eliminates the traditional approach of 'make it fit' during installation.

All Speedway Crosses are now manufactured with a Speedlok Integral Coupler, removing the need for separate couplers in the joining mechanism between cable ladder fittings and straight lengths of ladder.

All Speedway Crosses will be supplied with all necessary fixings.

The rungs are orientated with the open face uppermost to suit the use of cleats and similar cable restraint devices. This allows compliance with current recommendations for cable restraint, especially where cables are used which have a high potential fault current level.

Equal Crosses, where the branches have identical widths, are supplied as standard. Short and long adjustable couplers, as well as abrupt reducers, can be used to convert equal crosses into unequal crosses. The Short and Long Adjustable Couplers give a maximum width reduction of 150mm and 300mm respectively.

Consult our Sales Team on the availability of non-standard crosses where differing branch widths and differing radii are required to suit specific installation requirements.

WHEN JOINING ONE FITTING TO ANOTHER TO SUIT ON SITE INSTALLATION REQUIREMENTS THE USE OF A FITTING TO FITTING COUPLER (FFC) WILL BE REQUIRED. PLEASE REFER TO PG 73 FOR FURTHER DETAILS

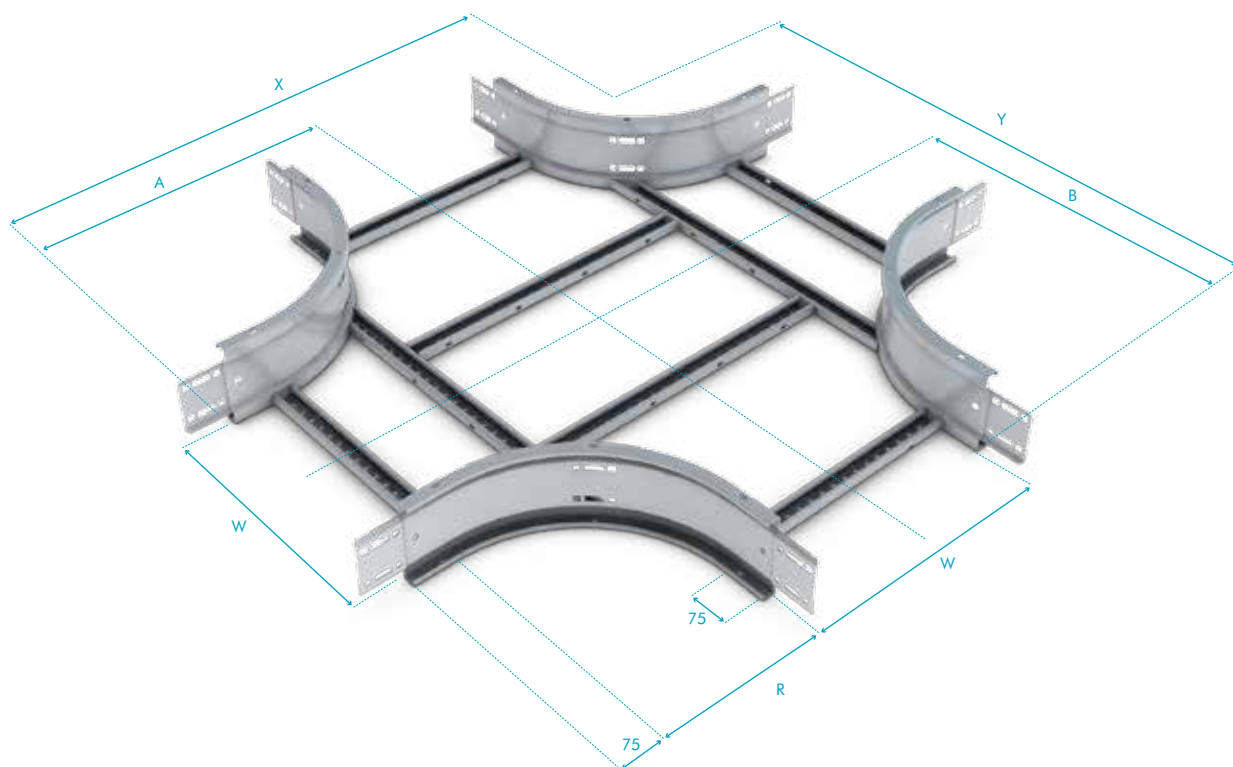
ACCREDITED TO THE
FOLLOWING STANDARD



SW6 / EC / 750 / 600 / GK
System Type Fitting Type Width Radius Finish

Speedway Crosses

Ref.EC



Part Number	Type	Dimensions (mm)						Weights (kg)		
		R	W	A	B	X	Y	SW4	SW5	SW6
SW△/EC/150/300/○	300mm Branch	300	150	450	450	900	900	6.74	9.68	11.57
SW△/EC/300/300/○		300	300	525	525	1050	1050	7.87	10.82	13.09
SW△/EC/450/300/○		300	450	600	600	1200	1200	9.64	12.58	15.44
SW△/EC/600/300/○		300	600	675	675	1350	1350	10.94	13.88	17.17
SW△/EC/750/300/○		300	750	750	750	1500	1500	14.65	17.59	18.90
SW△/EC/900/300/○		300	900	825	825	1650	1650	17.87	20.81	22.12
SW△/EC/1050/300/○		300	1050	900	900	1800	1800	19.82	22.76	24.07
SW△/EC/150/600/○	600mm Branch	600	150	750	750	1500	1500	11.42	16.56	19.61
SW△/EC/300/600/○		600	300	825	825	1650	1650	13.37	18.51	22.22
SW△/EC/450/600/○		600	450	900	900	1800	1800	14.83	19.97	24.16
SW△/EC/600/600/○		600	600	975	975	1950	1950	16.29	21.43	26.11
SW△/EC/750/600/○		600	750	1050	1050	2100	2100	22.33	27.47	29.58
SW△/EC/900/600/○		600	900	1125	1125	2250	2250	24.49	29.64	31.75
SW△/EC/1050/600/○		600	1050	1200	1200	2400	2400	26.66	31.80	33.91

△ = Select a Ladder Type ○ = Select a Finish & Material

VANTRUNK
SPEEDLOK
QUICKFIT CABLE LADDER

Finishes & Materials:



Supplied with:



Not Required:



Weights shown are for standard hot dip galvanised finish only, for Stainless Steel and Silicon Rich Steel weight conversion factors please refer to the Speedway Technical Section of our catalogue (Page 96).



REDUCERS - STRAIGHT, LEFT & RIGHT (RS, RL & RR)

Speedway Reducers are used to create coplanar reductions in widths between adjoining straight ladders and between straight ladders and fittings of the same ladder type, fulfilling the same role as short and long adjustable couplers but using a purpose-made fitting capable of self-support as part of a cable run.

Speedway Straight Reducers (RS reducer straight) are used to create a concentric reduction, having an equal width reduction along both sides. Left hand reducers (RL reducer left) and right hand reducers (RR reducer right) are used to create offset reductions to suit particular installation requirements. Left hand reducers have the width reduction on the left when viewed from the primary width. Right hand reducers have the width reduction on the right when viewed from the primary width.

Speedway reducers are available for use across the full range of Speedway cable ladder widths to facilitate width changes from the widest to the narrowest width and all possible combinations in between. The Speedway Reducer has an overall length of 500mm irrespective of ladder type and width reduction.

All Speedway Reducers are now manufactured with a Speedlok Integral Coupler, removing the need for separate couplers in the joining mechanism between cable ladder fittings and straight lengths of ladder. All Speedway Reducers will be supplied with all necessary fixings.

Each reducer has two rungs as standard. The reducer rungs are orientated with the open face uppermost to suit the use of cleats and similar cable restraint devices. This allows compliance with current recommendations for cable restraint, especially where cables are used which have a high potential fault current level.

WHEN JOINING ONE FITTING TO ANOTHER TO SUIT ON SITE INSTALLATION REQUIREMENTS THE USE OF A FITTING TO FITTING COUPLER (FFC) WILL BE REQUIRED. PLEASE REFER TO PG 73 FOR FURTHER DETAILS

ACCREDITED TO THE
FOLLOWING STANDARD

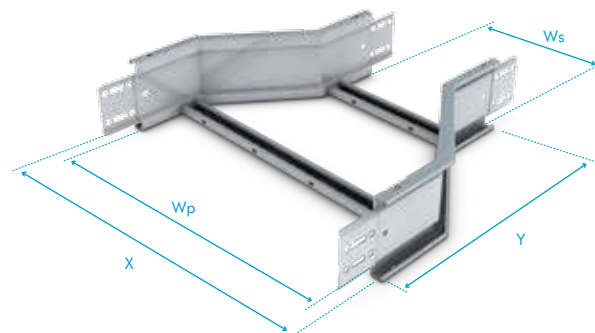


SW6 / RS / 900 / 750 / SS
System Type Fitting Type Width Wp Width Ws Finish

Reducer Straight **Ref.RS**

Part Number	Dimensions (mm)				Weight (kg)			
	Wp	Ws	X		Y	SW4	SW5	SW6
			SW4	SW5 & SW6				
SWΔ/RS/300/150/○	300	150	340	350	75	2.65	3.94	4.68
SWΔ/RS/450/150/○	450		490	500	150	2.97	4.35	5.18
SWΔ/RS/600/150/○	600		640	650	225	3.33	4.85	5.77
SWΔ/RS/750/150/○	750		790	800	300	4.06	5.71	6.42
SWΔ/RS/900/150/○	900		940	950	375	4.52	6.34	7.10
SWΔ/RS/1050/150/○	1050		1090	1100	450	5.00	6.98	7.80
SWΔ/RS/450/300/○	450	300	490	500	75	2.98	4.26	5.11
SWΔ/RS/600/300/○	600		640	650	150	3.29	4.67	5.61
SWΔ/RS/750/300/○	750		790	800	225	4.04	5.55	6.21
SWΔ/RS/900/300/○	900		940	950	300	4.49	6.14	6.85
SWΔ/RS/1050/300/○	1050		1090	1100	375	4.96	6.77	7.53
SWΔ/RS/600/450/○	600	450	670	650	75	3.30	4.59	5.54
SWΔ/RS/750/450/○	750		790	800	150	4.05	5.43	6.04
SWΔ/RS/900/450/○	900		940	950	225	4.47	5.98	6.64
SWΔ/RS/1050/450/○	1050		1090	1100	300	4.92	6.58	7.29
SWΔ/RS/750/600/○	750	600	800	800	75	4.11	5.40	5.98
SWΔ/RS/900/600/○	900		940	950	150	4.48	5.86	6.48
SWΔ/RS/1050/600/○	1050		1090	1100	225	4.90	6.41	7.07
SWΔ/RS/900/750/○	900	750	940	950	75	4.55	5.83	6.41
SWΔ/RS/1050/750/○	1050		1090	1100	150	4.91	6.30	6.91
SWΔ/RS/1050/900/○	1050	900	1090	1100	75	4.98	6.26	6.84

Δ = Select a Ladder Type ○ = Select a Finish & Material



Finishes & Materials:



Supplied with:



Not Required:

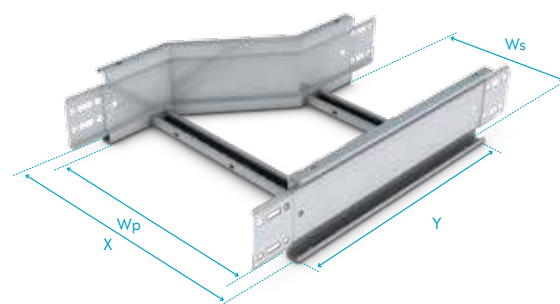

VANTRUNK
SPEEDLOK
 QUICKFIT CABLE LADDER

Weights shown are for standard hot dip galvanised finish only, for Stainless Steel and Silicon Rich Steel weight conversion factors please refer to the Speedway Technical Section of our catalogue (Page 96).

Reducer Left **Ref.RL**

Part Number	Dimensions (mm)				Weight (kg)			
	Wp	Ws	X		Y	SW4	SW5	SW6
			SW4	SW5 & SW6				
SWΔ/RL/300/150/○	300	150	340	350	75	2.70	4.01	4.76
SWΔ/RL/450/150/○	450		490	500	150	3.08	4.53	5.38
SWΔ/RL/600/150/○	600		640	650	225	3.50	5.10	6.07
SWΔ/RL/750/150/○	750		790	800	300	4.26	6.03	6.78
SWΔ/RL/900/150/○	900		940	950	375	4.75	6.69	7.51
SWΔ/RL/1050/150/○	1050		1090	1100	450	5.25	7.36	8.24
SWΔ/RL/450/300/○	450	300	490	500	75	3.02	4.33	5.19
SWΔ/RL/600/300/○	600		640	650	150	3.40	4.85	5.81
SWΔ/RL/750/300/○	750		790	800	225	4.20	5.81	6.50
SWΔ/RL/900/300/○	900		940	950	300	4.69	6.46	7.21
SWΔ/RL/1050/300/○	1050		1090	1100	375	5.18	7.12	7.94
SWΔ/RL/600/450/○	600	450	670	650	75	3.35	4.66	5.62
SWΔ/RL/750/450/○	750		790	800	150	4.16	5.61	6.24
SWΔ/RL/900/450/○	900		940	950	225	4.63	6.24	6.93
SWΔ/RL/1050/450/○	1050		1090	1100	300	5.12	6.89	7.65
SWΔ/RL/750/600/○	750	600	800	800	75	4.16	5.47	6.05
SWΔ/RL/900/600/○	900		940	950	150	4.59	6.04	6.68
SWΔ/RL/1050/600/○	1050		1090	1100	225	5.07	6.67	7.37
SWΔ/RL/900/750/○	900	750	940	950	75	4.59	5.90	6.49
SWΔ/RL/1050/750/○	1050		1090	1100	150	5.03	6.47	7.11
SWΔ/RL/1050/900/○	1050	900	1090	1100	75	5.02	6.33	6.92

Δ = Select a Ladder Type ○ = Select a Finish & Material


VANTRUNK
SPEEDLOK
 QUICKFIT CABLE LADDER

Finishes & Materials:



Supplied with:



Not Required:

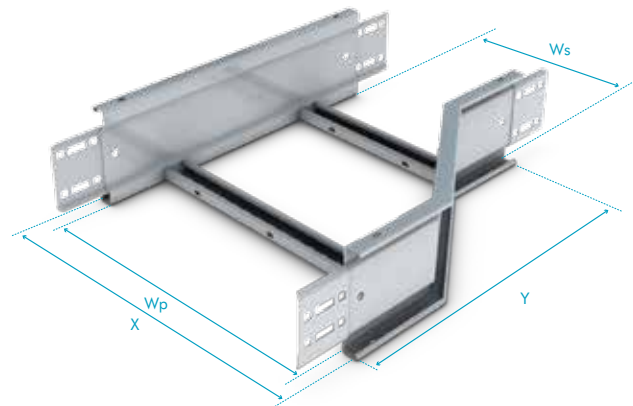


Weights shown are for standard hot dip galvanised finish only, for Stainless Steel and Silicon Rich Steel weight conversion factors please refer to the Speedway Technical Section of our catalogue (Page 96).

Reducer Right Ref.RR

Part Number	Dimensions (mm)					Weight (kg)		
	Wp	Ws	X		Y	SW4	SW5	SW6
			SW4	SW5 & SW6				
SW△/RR/300/150/○	300	150	340	350	75	2.70	4.01	4.76
SW△/RR/450/150/○	450		490	500	150	3.08	4.53	5.38
SW△/RR/600/150/○	600		640	650	225	3.50	5.10	6.07
SW△/RR/750/150/○	750		790	800	300	4.26	6.03	6.78
SW△/RR/900/150/○	900		940	950	375	4.75	6.69	7.51
SW△/RR/1050/150/○	1050		1090	1100	450	5.25	7.36	8.24
SW△/RR/450/300/○	450	300	490	500	75	3.02	4.33	5.19
SW△/RR/600/300/○	600		640	650	150	3.40	4.85	5.81
SW△/RR/750/300/○	750		790	800	225	4.20	5.81	6.50
SW△/RR/900/300/○	900		940	950	300	4.69	6.46	7.21
SW△/RR/1050/300/○	1050		1090	1100	375	5.18	7.12	7.94
SW△/RR/600/450/○	600	450	670	650	75	3.35	4.66	5.62
SW△/RR/750/450/○	750		790	800	150	4.16	5.61	6.24
SW△/RR/900/450/○	900		940	950	225	4.63	6.24	6.93
SW△/RR/1050/450/○	1050		1090	1100	300	5.12	6.89	7.65
SW△/RR/750/600/○	750	600	800	800	75	4.16	5.47	6.05
SW△/RR/900/600/○	900		940	950	150	4.59	6.04	6.68
SW△/RR/1050/600/○	1050		1090	1100	225	5.07	6.67	7.37
SW△/RR/900/750/○	900	750	940	950	75	4.59	5.90	6.49
SW△/RR/1050/750/○	1050		1090	1100	150	5.03	6.47	7.11
SW△/RR/1050/900/○	1050		1090	1100	75	5.02	6.33	6.92

△= Select a Ladder Type ○= Select a Finish & Material



VANTRUNK
SPEEDLOK
QUICKFIT CABLE LADDER

Finishes & Materials:



Supplied with:



Not Required:



Weights shown are for standard hot dip galvanised finish only, for Stainless Steel and Silicon Rich Steel weight conversion factors please refer to the Speedway Technical Section of our catalogue (Page 96).

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COUPLERS

The Speedway Coupling System has been designed to prevent slip between connected components – a common problem for slotted cable ladder systems when under load.

The slot pattern in the ladder sides can be combined with the slot pattern in the couplers and integral couplers to create a pattern of squares; these square patterns can also be formed irrespective of where straight ladders are cut to length to suit site installation requirements. The specially designed Vantrunk square shouldered bolt interlocks into this pattern of squares to create a slip-resistant connection.

The Speedway Coupler has a profile which exactly matches the unique profile of the Speedway Ladder (& Fitting side walls) to give a high performance connection which securely holds the connected components together.

All standard Speedway Couplers are supplied singly and come complete with all necessary fixings. i.e. specially designed domed head M10X20 cup square bolts (eliminating sharp edges) and M10 Serrated Flange Nuts as standard.

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FOLLOWING STANDARD



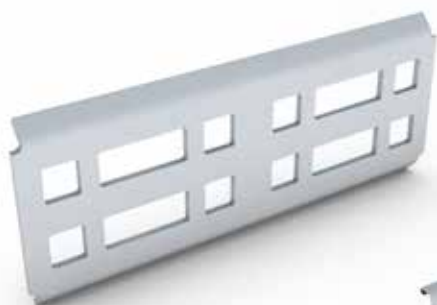
SW4
System Type

CS
Coupler Type

GA
Finish

SW4 Straight Coupler

Ref.SW4/CS



Part Number

SW4/CS/O

Finishes & Materials:



Supplied with:

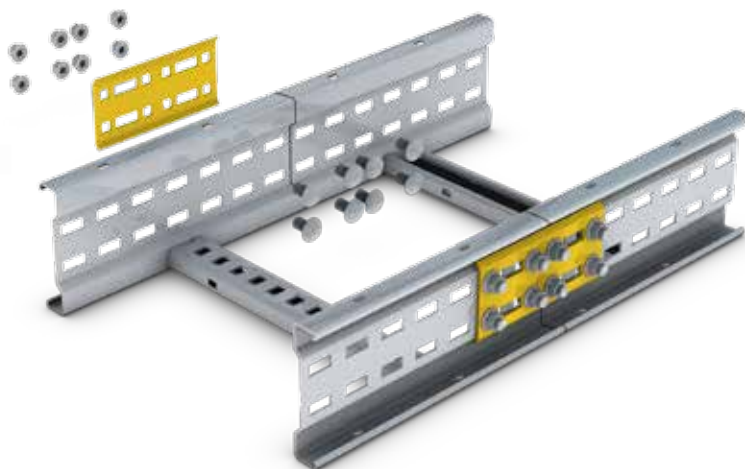
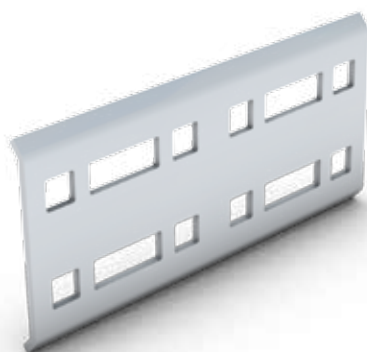


Showing assembly detail onto ladder. Supplied with 4 fixings per coupler

O= Select a Finish & Material

SW5 Straight Coupler

Ref.SW5/CS



Part Number

SW5/CS/O

Finishes & Materials:



Supplied with:

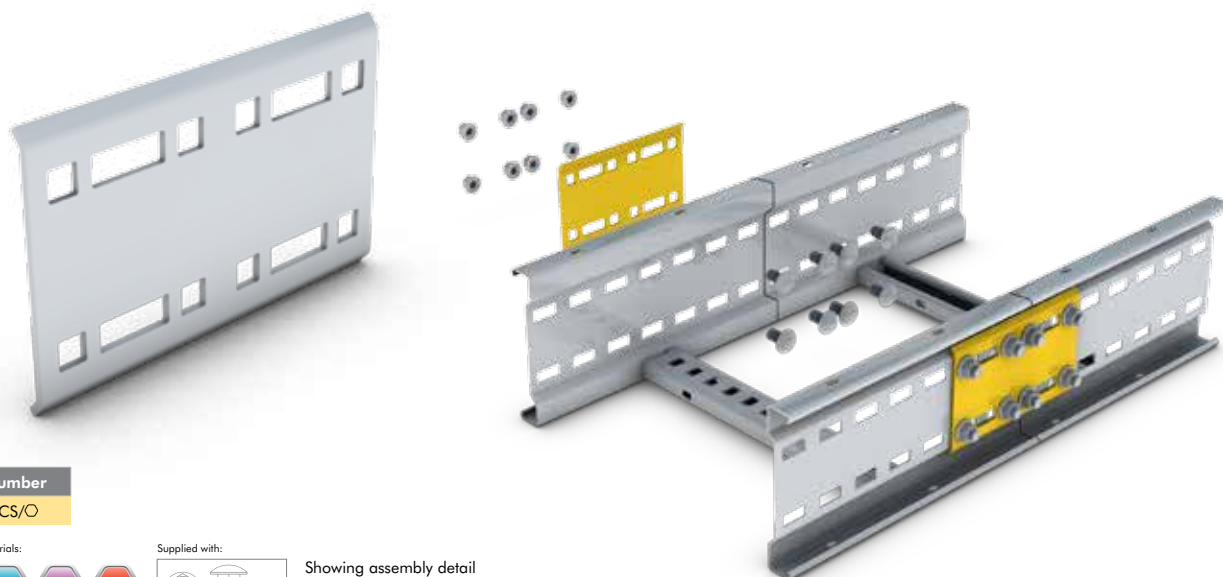


Showing assembly detail onto ladder. Supplied with 8 fixings per coupler

O= Select a Finish & Material

SW6 Straight Coupler

Ref.SW6/CS



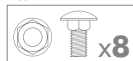
Part Number

SW6/CS/O

Finishes & Materials:



Supplied with:



Showing assembly detail
onto ladder. Supplied with
8 fixings per coupler

○ = Select a Finish & Material

Horizontal Adjustable Couplers

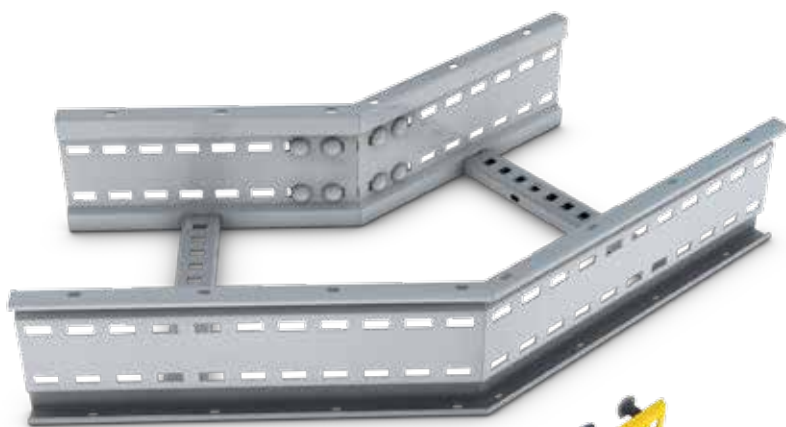
Ref.HAC



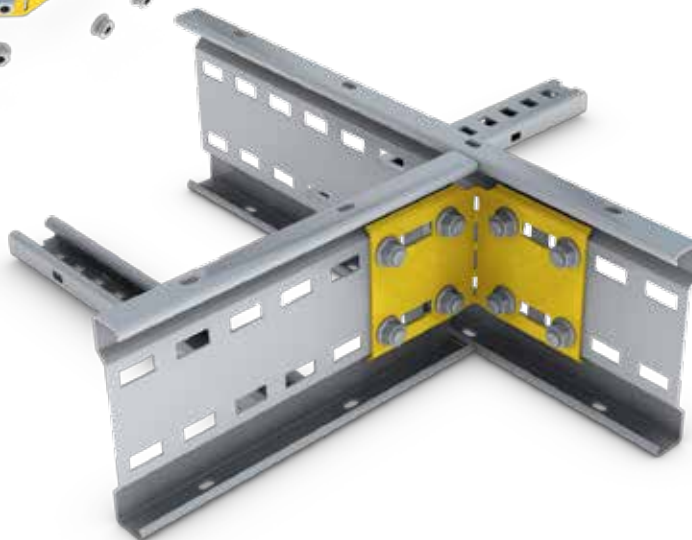
Speedway Horizontal Adjustable Couplers (HAC's) are used to join straight ladder and fittings where these need to be connected at offset angles in the same horizontal or vertical plane. When connecting a HAC to a cable ladder fitting please connect via a Fitting to Fitting Coupler (FFC), turn to page 73 for details.

Speedway Horizontal Adjustable Couplers are supplied singly and come complete with all necessary ladder fixing sets.

The Speedway Horizontal Adjustable Coupler is supplied flat and has easi-bend slots which allow the coupler to be bent on site to any angle to connect two cable ladder runs to form 'T' & 'Y' intersections.



Horizontal adjustable couplers
shown as a pair in use to create an offset
connection between two ladders



Part Number

SWΔ/HAC/O

Finishes & Materials:



Supplied with:



Δ= Select a Ladder Type ○= Select a Finish & Material

Horizontal adjustable coupler
shown formed to 90° to join a ladder
to a main run

Vertical Adjustable Couplers



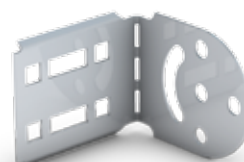
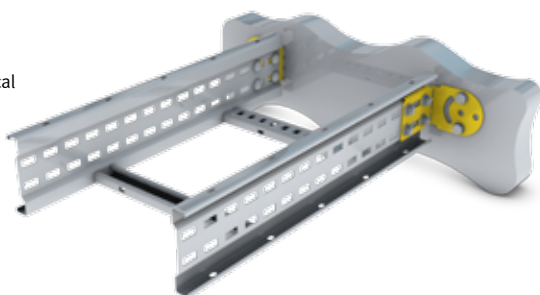
Ref. VAC

Speedway Vertical Adjustable couplers (VAC) are used to join straight ladder and fittings where these need to be connected at offset angles when these lie in different planes. When connecting a VAC to a cable ladder fitting please connect via a Fitting to Fitting Coupler (FFC), turn to page 73 for details.

Speedway Vertical Adjustable couplers are supplied singly and come complete with all necessary ladder fixing sets. Each vertical adjustable coupler comprises of two half plates complete with all necessary pivot fixings.

The arrangement of the pivot holes and elongated slots allows for infinite angular adjustment to suit specific site requirements. The vertical adjustable coupler features easi-bend slots which allow the couplers to be adjusted on site to create combined horizontal & vertical offset connections, ladder connections onto the side wall of a main run to form tees, or straight ladder & fitting connections directly to a floor or wall.

Vertical Adjustable Coupler
 Half shown bent to 90° and connecting a ladder to a vertical structure



Vertical Adjustable Coupler
 Shown connecting two ladders in the vertical plane



Vertical Adjustable Coupler
 Shown bent to 90° and connecting an angled ladder to a horizontal ladder



Part Number

SW△/VAC/○

Finishes & Materials:



Supplied with:



△ = Select a Ladder Type ○ = Select a Finish & Material

Horizontal Hinged Couplers

Ref.HHC



Speedway Horizontal Hinged Couplers (HHC's) are offered as an alternative to the HAC. Speedway Horizontal Hinged Couplers are supplied singly and come complete with all necessary ladder fixing sets.

The Speedway Horizontal Hinged Coupler is supplied as an assembly allowing the coupler to be hinged to any angle to connect two cable ladder runs to form 'T' & 'Y' intersections.



Part Number

SW△/HHC/O

Finishes & Materials:



Supplied with:



Showing assembly detail onto ladder. Supplied with 8 fixings per coupler

△= Select a Ladder Type ○= Select a Finish & Material

Short & Long Adjustable Couplers



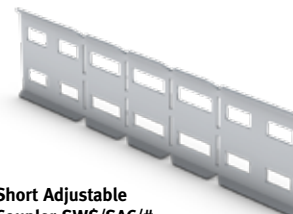
Ref. SAC & LAC

Speedway Short and Long Adjustable Couplers are used to create custom reductions in width during installation & to convert equal tees and crosses into unequal tees and crosses when used with a Fitting to Fitting Coupler (FFC).

Speedway Short and Long Adjustable Couplers are supplied singly and come complete with all necessary ladder fixing sets. Each adjustable coupler has 50mm long segments with easibend slots which allow the couplers to be adjusted on site to suit specific installation requirements.

Short adjustable couplers allow reductions of up to & including 150mm per coupler. Long adjustable couplers allow reductions of up to & including 300mm per coupler.

A single short or long adjustable coupler can be used in conjunction with a standard coupler to create an offset connection between two ladders or fittings of differing widths. For concentric reductions, two short or long adjustable couplers are required.

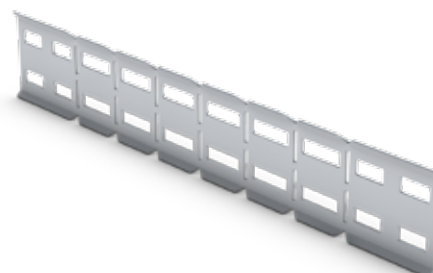


Short Adjustable Coupler SW\$SAC/#

Supplied flat & complete with all ladder fixings

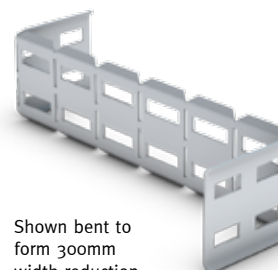


Shown bent to form 150mm width reduction

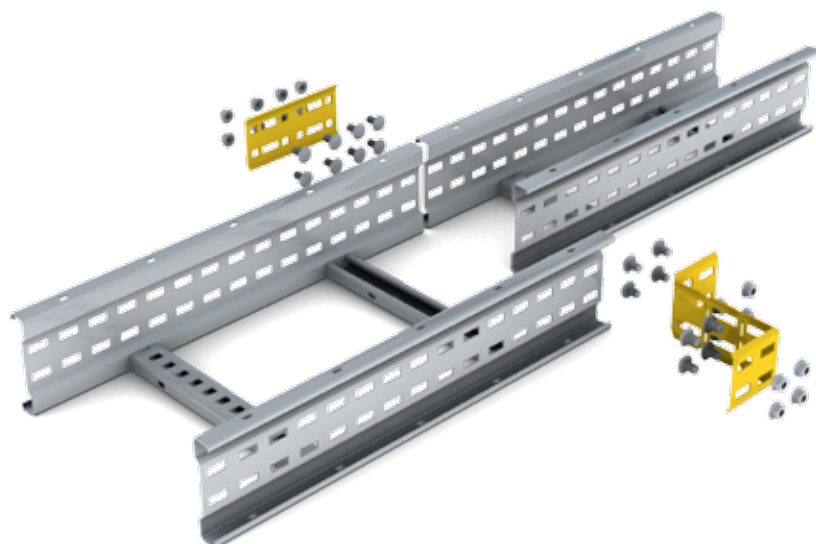


Long Adjustable Coupler SW\$LAC/#

Supplied flat & complete with all ladder fixings



Shown bent to form 300mm width reduction



Part Number	Part
SW△/SAC/○	Short Adjustable Coupler
SW△/LAC/○	Long Adjustable Coupler

Finishes & Materials:



Supplied with:



△ = Select a Ladder Type ○ = Select a Finish & Material

Expansion Couplers

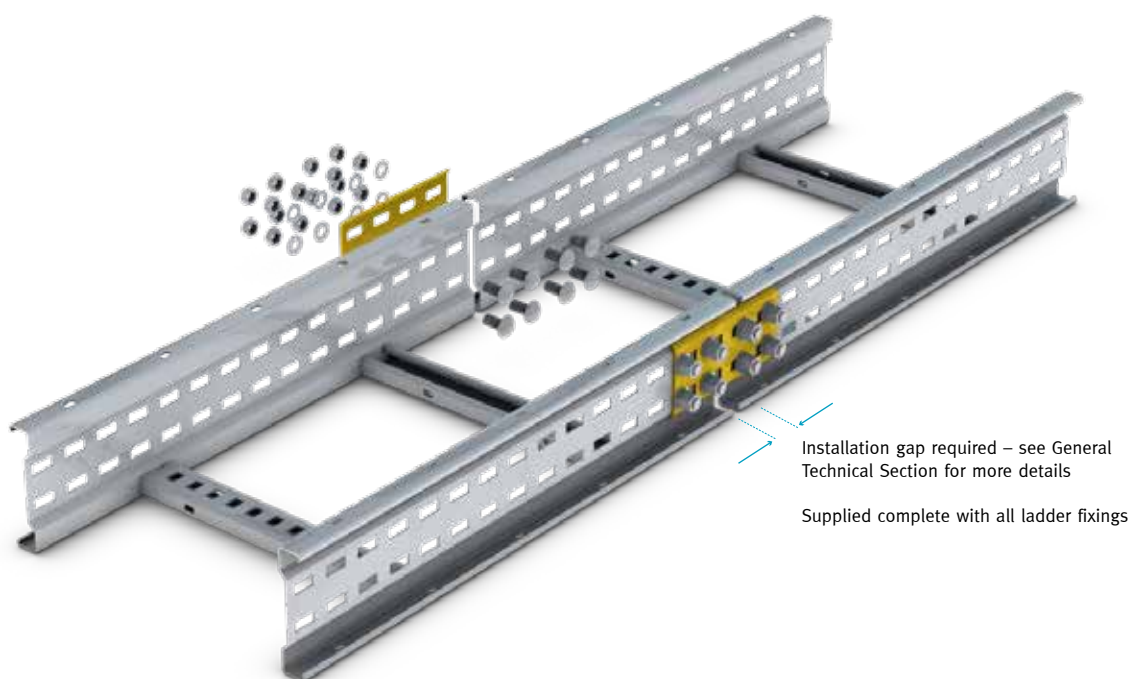
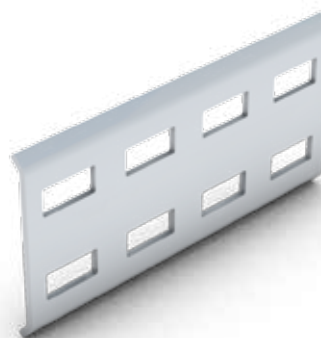
Ref.EXP

Speedway Expansion Couplers (EXP) are recommended for those installations where the maximum and minimum temperatures are such that the expansion and contraction of the cable ladder installation is a consideration.

Each Expansion Coupler is designed to allow for a maximum movement of 28mm. Speedway expansion couplers are supplied singly and come complete with all necessary ladder fixings (8 fixings supplied with each coupler).

The Expansion Coupler should not be installed without a support either side of the expansion joint within 600mm.

Specific recommendations covering the spacing of expansion couplers and the setting gap at the time of installation are given in the General Technical Section.



Part Number

SW△/EXP/○

Finishes & Materials:



Supplied with:



△ = Select a Ladder Type ○ = Select a Finish & Material

Full Moment Expansion Couplers

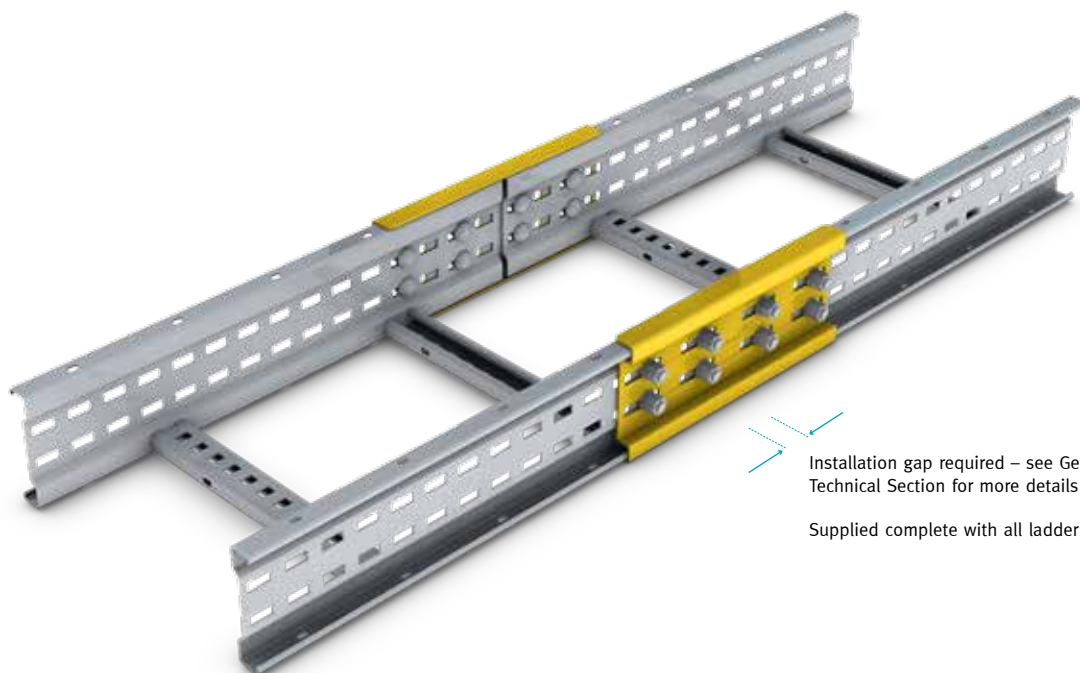
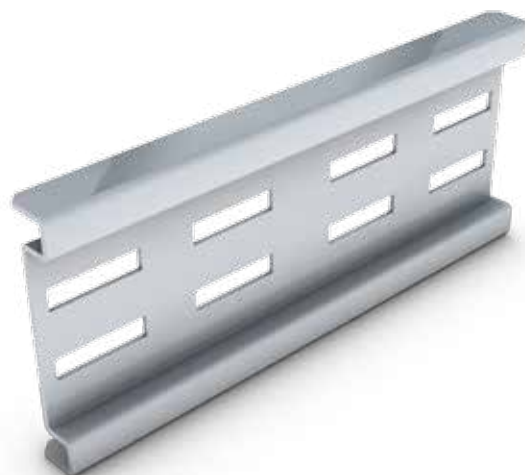
Ref.FME

Speedway Full Moment Expansion Couplers (FME) are recommended for those installations where the maximum and minimum temperatures are such that the expansion and contraction of the cable ladder installation is a consideration and where it is not possible to provide support within 600mm of the expansion joint.

Capable of carrying the full load of the Speedway Cable Ladder at the expansion joint, each expansion coupler is designed to allow for a maximum movement of 75mm.

Speedway Full Moment Expansion Couplers are supplied singly and come complete with all necessary ladder fixings (8 fixing sets per coupler).

Specific recommendations covering the spacing of expansion couplers and the setting gap at the time of installation are given in the General Technical Section of the catalogue.



Installation gap required – see General Technical Section for more details

Supplied complete with all ladder fixings

Part Number

SW△/FME/○

Finishes & Materials:



Supplied with:



△ = Select a Ladder Type ○ = Select a Finish & Material

Fitting to Fitting Coupler

Ref.FFC

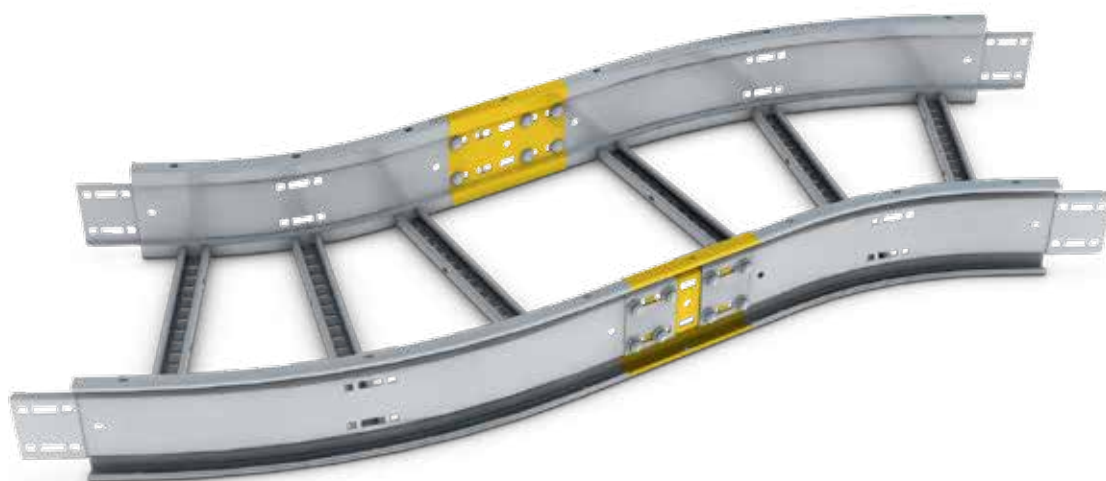
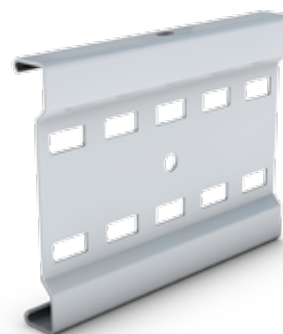
Speedway Fitting to Fitting Coupler (FFC) facilitates the joining of two abutting cable ladder fittings with Speedlok Integral Couplers. The fitting to fitting coupler is also used when turning an equal cross into an unequal Cross.

The Fitting to Fitting Coupler is based on the traditional Speedway Cable Ladder profile which is manufactured to a length of 200mm. The FFC is available across the Speedway product range in SW4, SW5 and SW6. To allow for two cable ladder fittings to be secured each FFC has 5 rows of slots, containing an 11mm hole in the middle row to allow fixing of an Earth Bonding Strap (ESB/o1)

To join two ladder fittings, first loose fit the FFC to one of the abutting fittings. Once the FFC is in place it will allow the secondary fitting to be positioned and fixed easily, tighten the fixings allowing the integral couplers to clamp onto the FFC profile thus providing a secure joining mechanism between the fittings.

An FFC will also be required when turning an Equal Cross (EC) into an Unequal Cross using a Reducer. Firstly the FFC should be secured loosely to the Cross, when both FFCs are in place secure the reducer. When all fixing locations are tightened the reducer will provide an immediate reduction to the equal cross. Please refer to Equal Crosses for more details.

The Fitting to Fitting coupler is supplied singly and does not require fixings. To allow for full mechanical and environmental protection of cables, a Fitting to Fitting Cover will be required.



Part Number

SW△/FFC/○

Finishes & Materials:



Supplied with:



△ = Select a Ladder Type ○ = Select a Finish & Material



ACCESSORIES

The Speedway Cable Ladder System is complemented by a range of accessories designed to aid installation and to add additional functionality & flexibility to the Speedway Cable Ladder System.

From versatile fixing clamps and brackets to junction box mounting plates and instrumentation tubing clamp plates, the Vantrunk range of Speedway Accessories have been designed over many years to represent cost-effective & practical solutions in the real installation environment.

ACCREDITED TO THE
FOLLOWING STANDARD



SW / EFC / SS
System Type Accessory Type Finish

External Flange Clamp

Ref.EFC

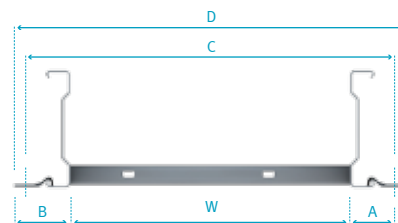
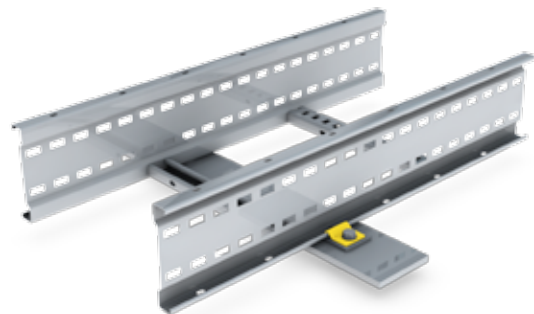
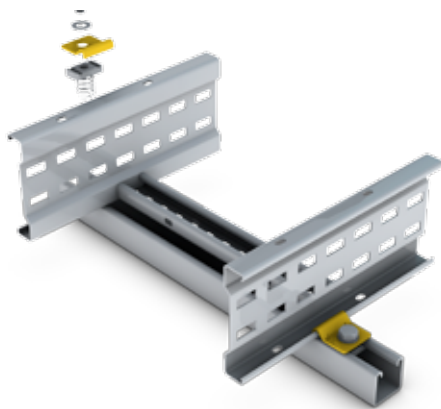
The External Flange Clamp (EFC) forms a simple but effective means of connecting Speedway Cable Ladder and Fittings to the supporting structure.

Designed for use with either channel (BS 6946 strut type) or structural steelwork, the external flange clamp has an M10 clearance hole.

Forming a secure clamping attachment onto the bottom flange of the Speedway profile, the external flange clamp can be used with all Speedway SW4, SW5, & SW6 cable ladder and fittings.

The External Flange Clamp is suitable for securing horizontal runs of Speedway Cable Ladder and Fittings in the horizontal plane.

External Flange Clamps are not suitable for supporting Speedway Cable Ladder installed as part of a vertical run.



The minimum thread length for the M10 fixing bolt is 22mm plus the thickness of the supporting steelwork. Refer to the table below for details of the fixing bolts.

Part Number	Thread Length	Description
OM10x25	25	M10 x 25 Hex Head Bolt
OM10x30	30	M10 x 30 Hex Head Bolt
OM10x35	35	M10 x 35 Hex Head Bolt
OM10x40	40	M10 x 40 Hex Head Bolt

The following table gives the recommended fixing hole centres and general dimensions when using External Flange Clamps.

Ladder Type	Dimensions (mm)			
	A	B	C	D
Speedway SW4	44.5	55	W+89	W+110
Speedway SW5				
Speedway SW6				

W = Ladder Width

Part Number
SW/EFC/O

Finishes & Materials:
GA SS GX GK

Supplied with:
 x0
MOUNTING FIXINGS
NOT INCLUDED

○ = Select a Finish & Material

Adaptable Fixing Bracket

Ref.AFB

The Speedway Adaptable Fixing Bracket (AFB) provides a bolted connection between the supporting structure and the Speedway Cable Ladder & Fittings.

The adaptable fixing bracket is recommended for use in supporting vertical runs of Speedway Cable Ladder and Fittings and for applications where the Speedway Cable Ladder is edge-mounted (i.e. installed in the vertical plane running horizontally).

The adaptable fixing bracket gives multiple fixing options for attaching and securing Speedway Cable Ladder and Fittings.

Forming a secure bolted connection into the lower row of slots, the adaptable fixing bracket is suitable for use with Speedway SW4, SW5, & SW6 Cable Ladder and Fittings.

For those applications where space is limited, the Adaptable Fixing Bracket can be fitted internally within the Speedway Cable Ladder. The unique design of the

Adaptable Fixing Bracket is such that there is no decrease in the effective loading area of the cable ladder when installed in this manner.

The adaptable fixing bracket can also be used singularly or in pairs to suspend Speedway Cable Ladder from threaded rod. For Speedway SW4 & SW5 Cable Ladder, the adaptable fixing bracket forms a simple but effective end connector to walls and floors.

The adaptable fixing bracket is supplied with one ladder fixing as standard.

Safe working load 300kg per pair of adaptable fixing brackets when supporting edge mounted Speedway cable ladder.

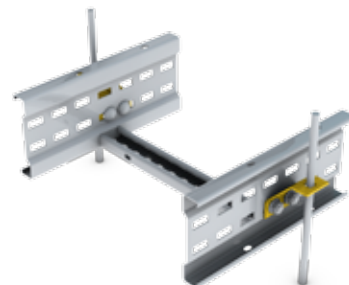
Safe working load 215 kg per pair of adaptable fixing brackets when supporting Speedway Cable Ladder installed as part of a vertical run.



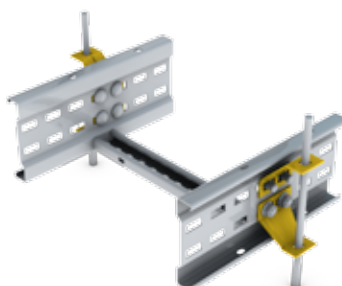
Supplied with one ladder fixing



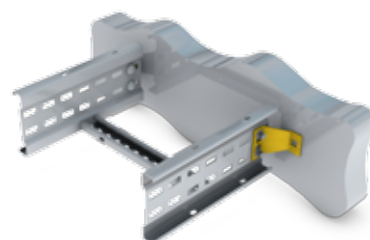
Adaptable fixing bracket used to secure vertical Speedway SW4 or SW5 cable ladder to threaded rod hangers



Adaptable fixing bracket used in pairs to secure Speedway cable ladder to threaded rod hangers



Adaptable fixing bracket used to secure Speedway cable ladder to threaded rod hangers



Adaptable fixing bracket used to secure Speedway SW4 or SW5 cable ladder to wall (or floor)

Part Number
SW/AFB/○

Finishes & Materials:



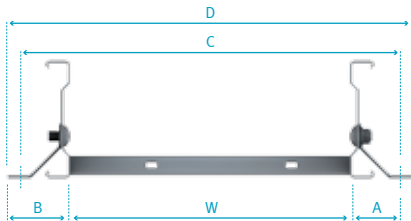
Supplied with:



○ = Select a Finish & Material



Adaptable fixing bracket used to secure Speedway cable ladder to channel



Adaptable fixing bracket located externally on cable ladder

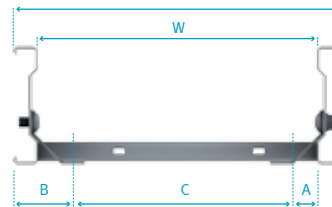
Ladder Type	Dimensions (mm)			
	Installed Externally			
	A	B	C	D
Speedway SW4				
Speedway SW5	53.5	64.5	W+102	W+129
Speedway SW6				

W = Ladder Width

Part Number	Thread Length	Description
OM10x25	25	M10 x 25 Hex Head Bolt
OM10x30	30	M10 x 30 Hex Head Bolt
OM10x35	35	M10 x 35 Hex Head Bolt
OM10x40	40	M10 x 40 Hex Head Bolt



Adaptable fixing bracket can be fitted internally to save space



Adaptable fixing bracket located internally on cable ladder

Ladder Type	Dimensions (mm)			
	Installed Externally			
	A	B	C	D
Speedway SW4				
Speedway SW5	39.5	65	W / 79	W+50
Speedway SW6				

These tables give the recommended fixing hole centres and general dimensions when using adaptable fixing brackets.

The minimum thread length for the M10 fixing bolt is 22mm plus the thickness of the supporting steelwork. Refer to the table (left) for details of the fixing bolts.

Speedway Hold Down Bracket

Ref.HDB

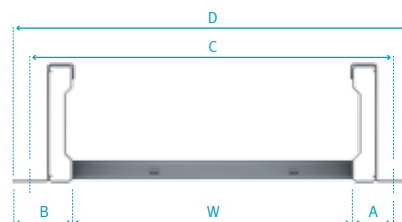
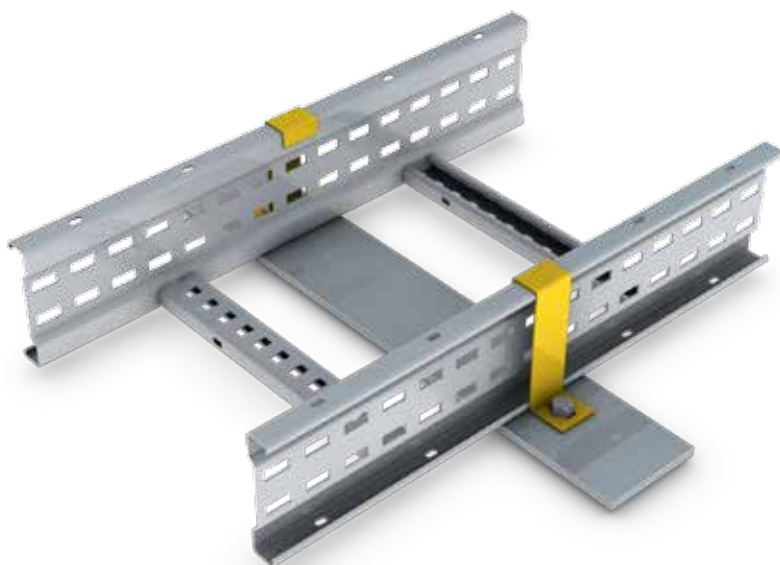
The Speedway Hold Down Bracket (HDB) is a simple but effective means of securing Speedway Cable Ladder and Fittings to the supporting structure. The Hold Down Bracket has a single M10 clearance slot which allows for easy adjustment to suit predrilled fixing holes in the supporting structure. The Hold Down Bracket is equally suited for installation on channel (BS 6946 strut type) or steelwork.

Fixings not supplied.

Hold Down Brackets are not suitable for supporting Speedway Cable Ladder installed as part of a vertical run.



25mm x 11.5mm slot



Speedway hold down bracket fitted onto Speedway cable ladder

Ladder Type	Dimensions (mm)			
	A	B	C	D
Speedway SW4	45	65	W+90	W+130
Speedway SW5				
Speedway SW6				

W = Ladder Width

Part Number
SWΔ/HDB/O

Finishes & Materials:



Δ = Select a Ladder Type

O = Select a Finish & Material

Supplied with:



MOUNTING FIXINGS
NOT INCLUDED

Part Number	Thread Length	Description
OM10x25	25	M10 x 25 Hex Head Bolt
OM10x30	30	M10 x 30 Hex Head Bolt
OM10x35	35	M10 x 35 Hex Head Bolt
OM10x40	40	M10 x 40 Hex Head Bolt

The minimum thread length for the M10 fixing bolt is 22mm plus the thickness of the supporting steelwork. Refer to the table above for details of the fixing bolts.

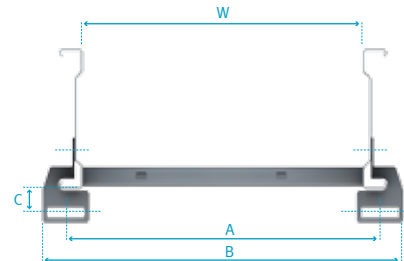
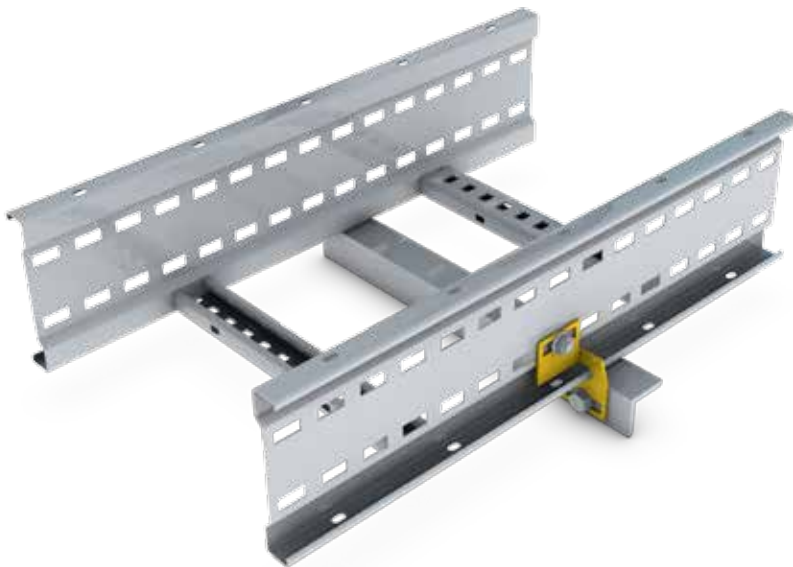
Angle Securing Bracket

Ref.ASB

The Speedway Angle Securing Bracket (ASB) is designed to connect Speedway SW4, SW5, & SW6 Cable Ladder to supporting structural angles. The 40mm x 11.5mm slots in both faces of the Angle Securing Bracket make installation quick & easy (M10 fixing recommended). The Angle Securing Bracket is supplied with one ladder fixing bracket as standard.



Supplied with one ladder fixing.



Speedway angle securing bracket fitted onto Speedway cable ladder

Ladder Type	Dimensions (mm)		
	A	B	C
Speedway SW4	W+36	W+86	24
Speedway SW5			
Speedway SW6			

Part Number
SW/ASB/O

W = Ladder Width

Finishes & Materials:



O = Select a Finish & Material

Supplied with:



Part Number	Thread Length	Description
OM10x25	25	M10 x 25 Hex Head Bolt
OM10x30	30	M10 x 30 Hex Head Bolt
OM10x35	35	M10 x 25 Hex Head Bolt
OM10x40	40	M10 x 30 Hex Head Bolt

The minimum thread length for the M10 fixing bolt is 22mm plus the thickness of the supporting steelwork. Refer to the table above for details of the fixing bolts.

Insulating Assemblies

A comprehensive range of nylon insulating assemblies are available to suit those installations where there is a requirement to provide electrical separation between the Speedway Cable Ladder System and the support structure.

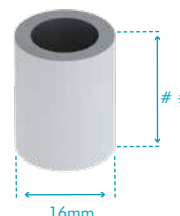
A typical example is a stainless steel Speedway Cable Ladder System mounted on galvanised or painted steel supports.

The insulating assembly is based on nylon base pads, nylon bushes and nylon washers which, when used with the Speedway External Flange Clamp, the Speedway Adaptable Fixing Bracket, or the speedway hold down bracket totally encapsulate the fixings and provide an insulation barrier between the Speedway Cable Ladder System and the supporting structure.

M10 Nylon Bush

The length of the nylon bush is equal to the thickness of the supporting steelwork (##). The nylon bush requires a 17mm diameter hole in the supporting steelwork.

315AN01-##: Nylon Bush Length ## = Steel Thickness (mm)

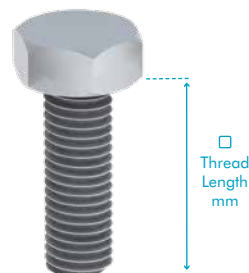


M10 Fixing Bolt

The minimum thread length for the fixing bolt (□) is 22mm plus the thickness of the supporting steelwork(##). Refer to the table below for details of the fixing bolts.

Part Number	Thread Length (□)	Description
SSM10X25HS	25mm	M10 x 25 Hex Head Set Screw Stainless Steel
SSM10X30HS	30mm	M10 x 30 Hex Head Set Screw Stainless Steel
SSM10X35HS	35mm	M10 x 35 Hex Head Set Screw Stainless Steel
SSM10X40HS	40mm	M10 x 40 Hex Head Set Screw Stainless Steel

□ - Thread length code. See table above.



For Example:

If the thickness of the Steelwork = 12mm

The length of the Nylon Bush is also 12mm = 315AN01-12

This means that the Minimum Thread Length of the Fixing Bolt = 22 + 12 = 34mm

Rounding this figure up to the nearest standard bolt length of 35mm, the supplied bolt = SSM10x35HS

If an AFB is to be used, order: SW/AFB/SS-INS/12

Insulating Assembly Components for External Flange Clamp (EFC)

Part Number	Item	Description
SSM10X□HS	1	M10 Hex Head Set Screw Stainless Steel - Length = □
SSM10FW	2	M10 Flat Washer Stainless Steel
SW/EFC/SS	3A	Speedway External Flange Clamp Stainless Steel
315AN18	4A	Nylon Pad (66.5 x 50 x 4mm)
315AN01-##	5	Nylon Bush - Length = ##
NYM10FW	6	M10 Flat Washer Nylon
SSM10HN	7	M10 Hex Nut Stainless Steel

Order details are as follows:
SW/EFC/SS-INS/##

Insulating Assembly Components for Adaptable Fixing Bracket (AFB)

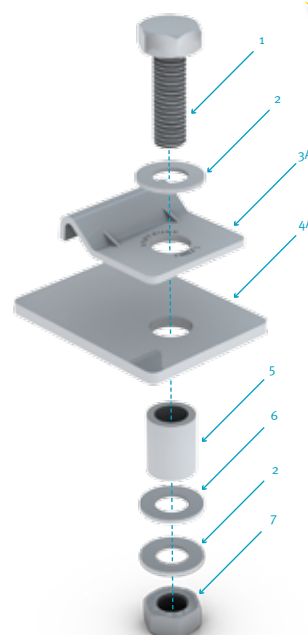
Part Number	Item	Description
SSM10X□HS	1	M10 Hex Head Set Screw Stainless Steel - Length = □
SSM10FW	2	M10 Flat Washer Stainless Steel
SW/AFB/SS	3C	Speedway Adaptable Fixing Bracket (AFB)
315AN12	4C	Nylon Pad (66.5 x 50 x 4mm)
315AN01-##	5	Nylon Bush - Length = ##
NYM10FW	6	M10 Flat Washer Nylon
SSM10HN	7	M10 Hex Nut Stainless Steel

Order details are as follows:
SW/AFB/SS-INS/##

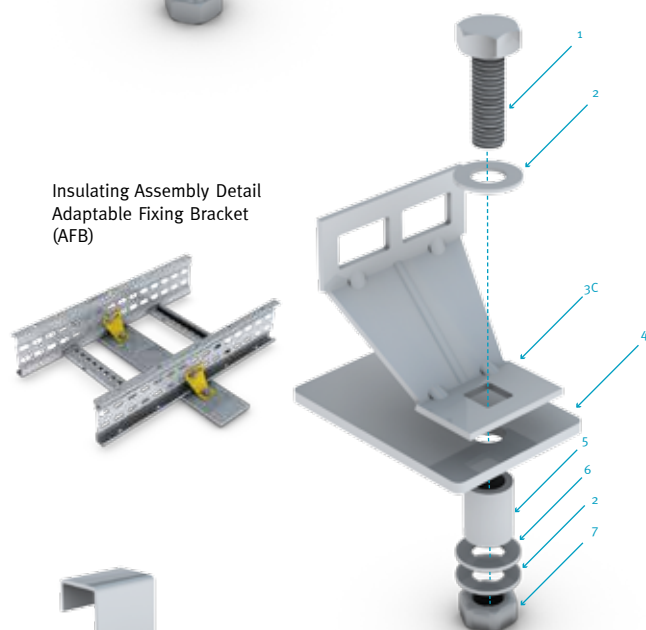
Insulating Assembly Components for Hold Down Bracket (HDB)

Part Number	Item	Description
SSM10X□HS	1	M10 Hex Head Set Screw Stainless Steel - Length = □
SSM10FW	2	M10 Flat Washer Stainless Steel
SW/HDB/SS	3B	Speedway Hold Down Bracket Stainless Steel
315AN15	4B	Nylon Pad (75 x 50 x 4mm)
315AN01-##	5	Nylon Bush - Length = ##
NYM10FW	6	M10 Flat Washer Nylon
SSM10HN	7	M10 Hex Nut Stainless Steel

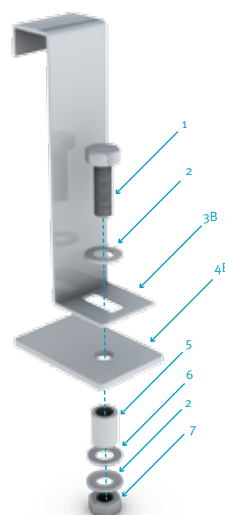
Order details are as follows:
SW/HDB/SS-INS/##



Insulating Assembly Detail
External Flange Clamp
(EFC)



Insulating Assembly Detail
Adaptable Fixing Bracket
(AFB)



Insulating Assembly Detail
Hold Down Bracket
(HDB)

Structural Connector Bracket

Ref.ASB

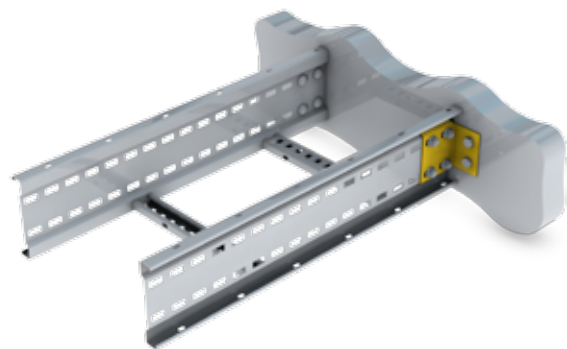
As an alternative to using a vertical adjustable coupler, the Speedway Structural Connector Bracket (SCB) is specifically designed for connecting Speedway Cable Ladder runs to walls and floors.

The Structural Connector Bracket has two 11mm diameter (M10 clearance) fixing holes and is supplied complete with all necessary ladder fixing sets.

Supplied with ladder fixing sets only



Speedway structural connecting bracket securing horizontal cable ladder to vertical channel support



Speedway structural connector bracket securing a horizontal cable ladder to a wall

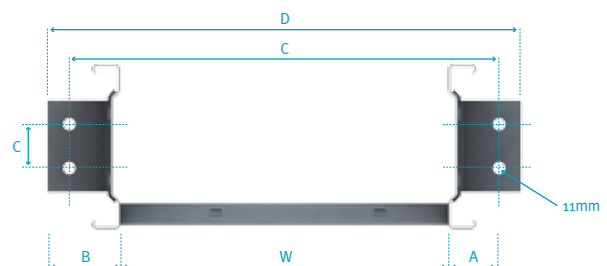
Ladder Type	Dimensions (mm)				
	A	B	C	D	E
Speedway SW4					
Speedway SW5	47	67	W+94	W+134	30
Speedway SW6					

W = Ladder Width

Part Number
SW△/SCB/○



△ = Select a Ladder Type
○ = Select a Finish & Material



Drop Out Bracket

Ref.DOB

The Speedway Drop Out Bracket (DOB) facilitates connection of vertical ladder to horizontal ladder, allowing on-site use to form vertical tee connections. Additional slots in the Drop Out Bracket allow secondary tray and other items to be attached to the cable ladder.

Supplied with ladder fixings sets



Speedway drop out bracket securing a vertical cable tray to a horizontal cable run



Speedway drop out bracket securing a vertical cable ladder to a horizontal cable run

Part Number

SW△/DOB/○

Finishes & Materials:

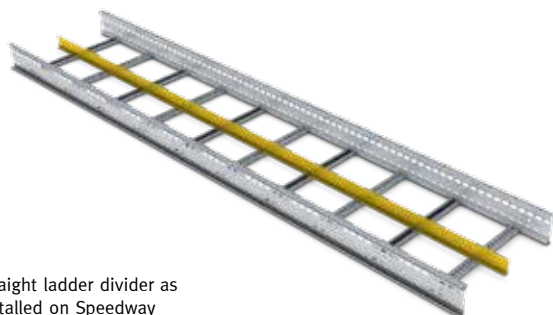


Supplied with:



△ = Select a Ladder Type ○ = Select a Finish & Material

Straight Ladder Divider Ref.DIV/SL1.5



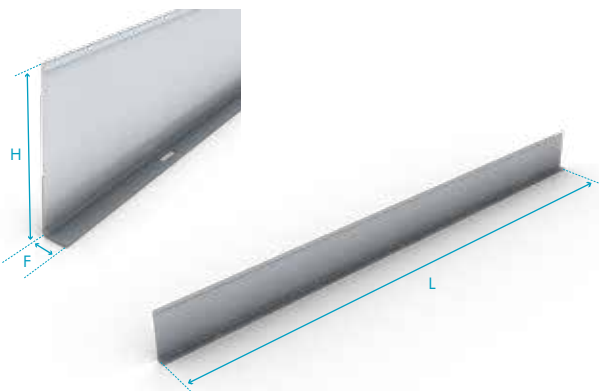
Straight ladder divider as installed on Speedway Straight Cable Ladder

Speedway Straight Ladder Dividers (DIV/SL1.5) are available for cable segregation and separation purposes along the length of a cable run.

Straight Ladder Dividers are available in three heights to suit Speedway SW4, SW5, & SW6 cable ladder and are 1500mm in length. Speedway Straight Dividers are supplied with 3 fixing sets per divider:

GA – M6x16 mushroom head bolt c/w short spring channel nut

SS – M6x16 pan head bolt c/w short spring channel nut and flat washer.



Part Number	Ladder Type	Dimensions (mm)		
		L	H	F
SW4/DIV/SL1.5/O	Speedway SW4	1500	70	20
SW5/DIV/SL1.5/O	Speedway SW5		85	
SW6/DIV/SL1.5/O	Speedway SW6		110	

Hot Dip Galvanized Dividers are manufactured out of 1.2mm Gauge Material

Finishes & Materials:

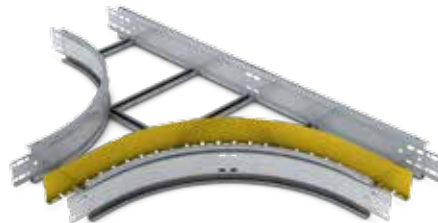


Supplied with:



○ = Select a Finish & Material

Fitting Divider Ref.DIV/FL1.5



Straight ladder divider as installed on Speedway Straight Cable Ladder

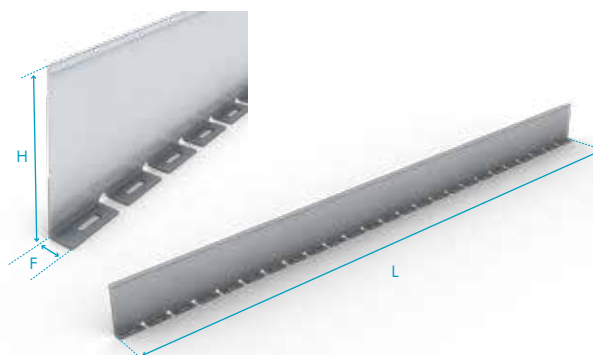
Speedway Fitting Dividers (DIV/FL1.5) are available for cable segregation and separation purposes on fittings. The Speedway Fitting Divider is supplied as a straight length and is notched to allow for forming around flat elbows, tees, crosses & reducers.

Speedway Fitting Dividers are available in three heights to suit Speedway SW4, SW5, & SW6 cable ladder and are 1500mm in length.

Fitting Dividers are supplied with 3 fixing sets per divider:

GA – M6x16 mushroom head bolt c/w short spring channel nut

SS – M6x16 pan head bolt c/w short spring channel nut and flat washer.



Part Number	Ladder Type	Dimensions (mm)		
		L	H	F
SW4/DIV/FL1.5/O	Speedway SW4	1500	70	20
SW5/DIV/FL1.5/O	Speedway SW5		85	
SW6/DIV/FL1.5/O	Speedway SW6		110	

Hot Dip Galvanized Dividers are manufactured out of 1.2mm Gauge Material

Finishes & Materials:



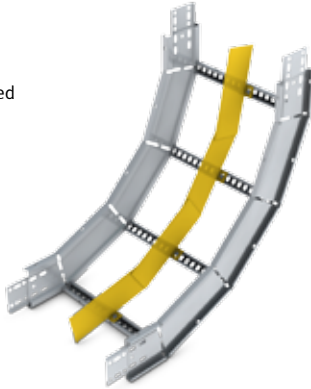
Supplied with:



○ = Select a Finish & Material

Riser Divider Ref.DIV/RL0.3

Riser divider installed on a Speedway 90° Inside Riser

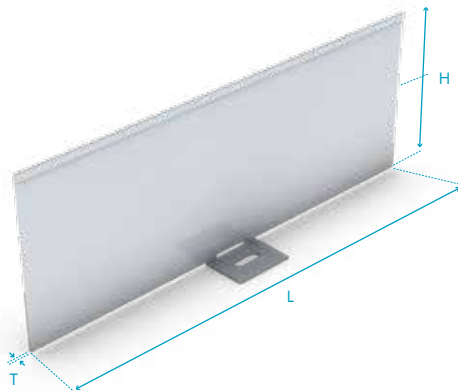


Speedway Riser Dividers (DIV/RL0.3) are available for cable segregation and separation purposes on riser fittings. The Speedway Riser Divider is suitable for use on inside and outside risers as well as the articulated riser. Speedway Riser Dividers are available in three heights to suit Speedway SW4, SW5, & SW6 Risers and are 300mm in length.

Speedway Riser Dividers are supplied with 1 fixing set per divider:

GA – M6x16 mushroom head bolt c/w short spring channel nut

SS – M6x16 pan head bolt c/w short spring channel nut and flat washer.



Part Number	Ladder Type	Dimensions (mm)		
		L	H	F
SW4/DIVRL0.3/O	Speedway SW4	300	70	1
SW5/DIV/RL0.3/O	Speedway SW5		85	
SW6/DIV/RL0.3/O	Speedway SW6		110	

Hot Dip Galvanized Dividers are manufactured out of 1.2mm Gauge Material

Finishes & Materials:



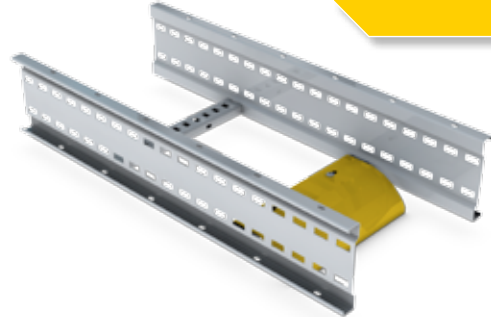
Supplied with:



O= Select a Finish & Material

Cable Drop Out

Ref.CDO



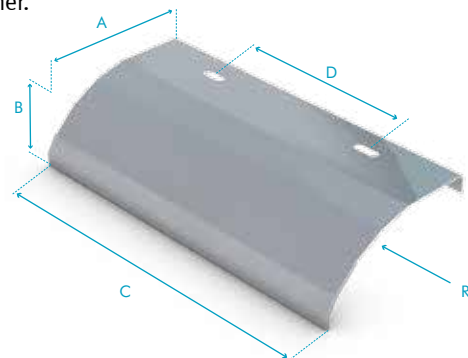
Speedway Cable Drop-Outs (CDO) are designed to provide a smooth transition for cable, particularly those with a small diameter, where these enter and leave the cable ladder.

Cable Drop-Outs are available to suit Speedway Cable Ladder of widths from 150mm to 1050mm as standard and are common to all Speedway Ladder types. Other widths are available – contact our Sales Team for details.

Cable Drop-Outs are supplied with 2 fixing sets*

GA – M6x16 mushroom head bolt c/w short spring channel nut

SS – M6x16 pan head bolt c/w short spring channel nut and flat washer.



Part Number	Dimensions (mm)				
	A	B	C	D	R
SW/CDO/150/O*	120	60	130	N/A	95
SW/CDO/300/O			280	150	
SW/CDO/450/O			430	300	
SW/CDO/600/O			580	450	
SW/CDO/750/O			730	600	
SW/CDO/900/O			880	750	
SW/CDO/1050/O			1030	900	

*SW/CDO/150 has a single central fixing slot

Finishes & Materials:



Supplied with:



O= Select a Finish & Material

End Plate Ref.EP



End plate shown
securing cable ladder to wall
(or floor for vertical installation)

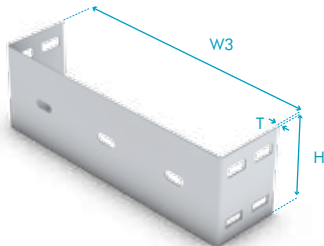
Speedway End Plates (EP) provide a neat termination for open ends of cable ladders.

Speedway End Plates are available in widths from 150mm to 1050mm as standard. Other widths are available – contact our Sales Team for details.

Each Speedway End Plate has 25mm x 11.5mm fixing slots at 100mm centres which allow the end plate to be used for securing the cable ladder to a wall or floor.



End plate shown closing
end of cable ladder run



Part Number	Dimensions (mm)		H		T	No. of fixing slots
	Ladder Width	W3	SW4 & SW5	SW6		
SW△/EP/150/○	150	172	80	105	2	2
SW△/EP/300/○	300	322				3
SW△/EP/450/○	450	472				5
SW△/EP/600/○	600	622				6
SW△/EP/750/○	750	772				8
SW△/EP/900/○	900	922				9
SW△/EP/1050/○	1050	1072				11

△ = Select a Ladder Type ○ = Select a Finish & Material

Finishes & Materials:



Supplied with:



Earth Bonding Strap Ref.EBS/01



The Speedway Earth Bonding Strap (EBS01) is designed for use in installations where an additional means of earthing or electrical bonding is specified.

The Speedway Earth Bonding Strap comprises of a 16mm² tinned copper braid crimped into M10 tinned copper end connectors.

The Speedway Earth Bonding Strap is common to Speedway SW4, SW5, & SW6.

Pre-punched holes for fixing the earth bonding strap are located at each end of the ladder and fittings.



Speedway Earth Bonding Strap as installed on a Speedway Cable Ladder

Part Number

EBS/01

Speedway Mounting Plate Ref. SMP

The Speedway Mounting Plate (SMP) provides a means of attaching junction boxes and other items to the speedway Cable Ladder System. Mounting plates are available to suit all Speedway Cable Ladder widths up to & including 900mm for attachment across the face of the cable ladder. The 300mm Speedway Mounting Plate (SW/SMP/300/#) can also be attached between rungs on all widths of Speedway Cable Ladder and can be mounted either within the cable space or below the cable ladder.

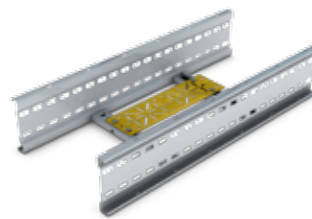
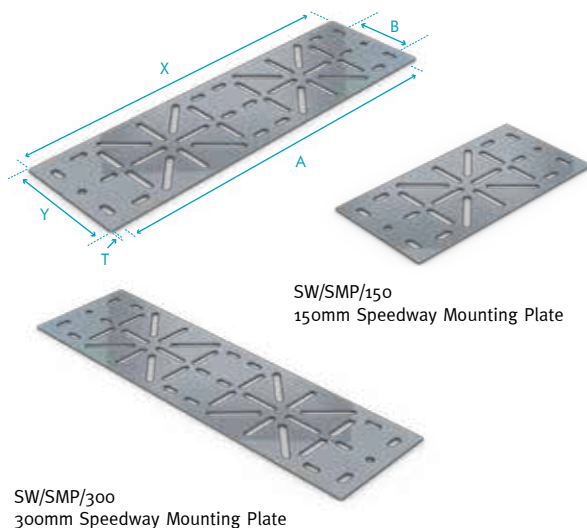
Alternative mounting plate designs can be made to order. Contact our Sales Team for more details.

Recommend Fixings:

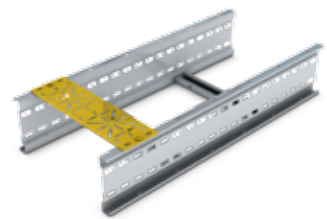
Speedway Rungs: M6 Channel Nut and M6 x 12 Pan Head Screw (& M6 Flat Washer for Stainless Steel)

Across Cable Ladder: M6 x 12 Pan Head Screw and M6 Hex Nut (& M6 Flat Washer for Stainless Steel)

Alternative mounting plate designs can be manufactured to special order - Consult our Design Team for further details.



SW/SMP/300 - 300mm mounting plate shown installed across rungs



SW/SMP/300 - 300mm mounting plate shown installed across the face of 300mm wide cable ladder

Part Number	Dimensions (mm)					
	Ladder Width	X	Y	A	B	T
SW/SMP/150/O	150	200	100	175	60	2
SW/SMP/300/O	300	350		325		
SW/SMP/450/O	450	500		475		
SW/SMP/600/O	600	600		625		
SW/SMP/750/O	750	800		775		
SW/SMP/900/O	900	950		925		

Finishes & Materials:



O = Select a Finish & Material

Supplied with:

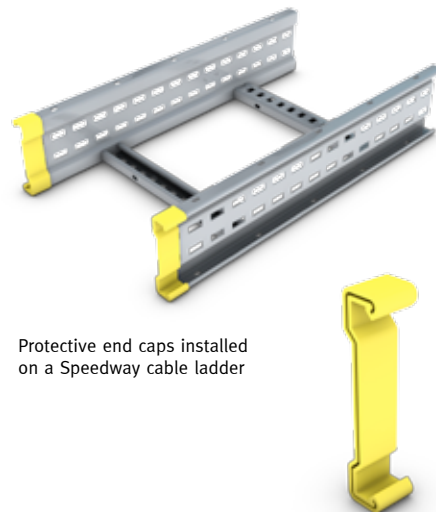


Protective End Caps Ref. PEC

Protective End Caps (PEC) are available for Speedway SW5 and SW6 profiles.

Manufactured in flexible yellow PVC material as standard, the protective end cap provides a visible and safe means of identifying & covering the open ends of Speedway Cable Ladder and Fittings.

Low smoke/zero halogen finish – contact our Technical Team for details.



Part Number
PEC

Junction Box Plates **Ref. JBP**

Speedway Junction Box Plates (JBP) provide a versatile means of attaching junction boxes, switches and other equipment directly onto Speedway Cable Ladder and Fittings.

Junction Box Plates are available in five standard sizes to suit all secondary equipment mounting requirements.

Junction Box Plates are not supplied with ladder fixings.

Recommended Fixings:

For attachment to Speedway cable ladder - M6 x 12 Pan head screw and M6 nut (&M6 Flat Washer for stainless steel). Consult our sales Team for further details.

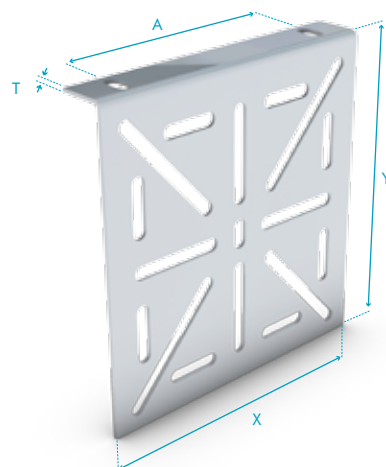
Part Number	Dimensions (mm)				No. of Fixings
	X	Y	A	T	
SW/JBP01/○	160	165	120	2	2
SW/JBP02/○	210	215	120	2	2
SW/JBP03/○	310	315	120	3	3
SW/JBP04/○	65	90	47	2	1
SW/JBP05/○	150	110	120	2	2

○ = Select a Finish & Material

Finishes & Materials:



Supplied with:



JBP01
Junction Box Plate



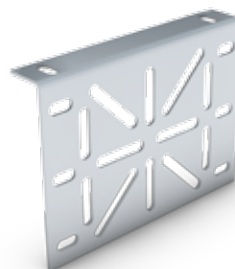
JBP02
Junction Box Plate



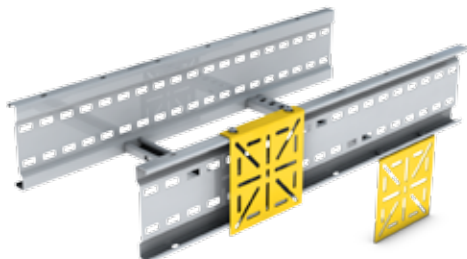
JBP03
Junction Box Plate



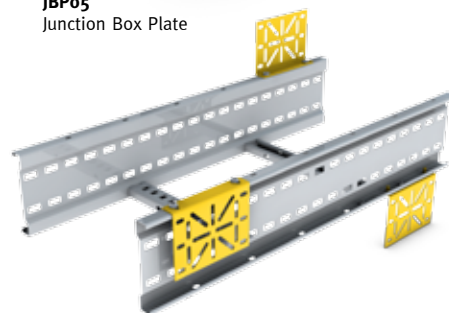
JBP04
Junction Box Plate



JBP05
Junction Box Plate



Junction Box Plate JBP01 shown mounted in two possible orientations on Speedway cable ladder



Junction Box Plate JBP05 shown mounted in three possible orientations on Speedway cable ladder

Tube Clamp Plates **Ref. TCP**

Speedway Tube Clamp Plates (TCP) are specifically designed for use with tubing clamp systems which require 7mm wide fixing slots at 20mm or 40mm slot centres.

The tube clamp plates will allow easy and convenient routing of both instrumentation tubing and cables on the same Speedway Cable Ladder run.

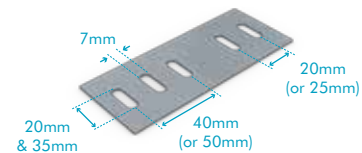
Speedway Tube Clamp Plates are also available with fixing slots at 25mm or 50mm slot centres (to order these items replace the 'o' in the part number with '5'). The slots in the tube clamp plates are either 20mm x 7mm (TCPo1, TCPo2, & TCPo3) or 35mm x 7mm (TCPo4, & TCPo5).

Part Number	Slots (mm)
SW/TCP01/O	20 x 7
SW/TCP02/O	20 x 7
SW/TCP03/O	20 x 7
SW/TCP04/O	35 x 7
SW/TCP07/O	35 x 7

Finishes & Materials:



Supplied with:



O = Select a Finish & Material

Tube Clamp Plate 01

Ref.SW/TCP01

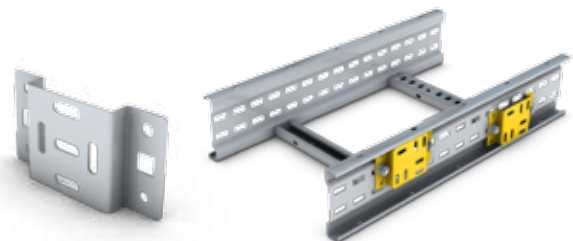
Speedway Tube Clamp Plate TCPo1 is used for direct fixing or for use with Speedway SW4, SW5 & SW6.



Tube Clamp Plate 02

Ref.SW/TCP02

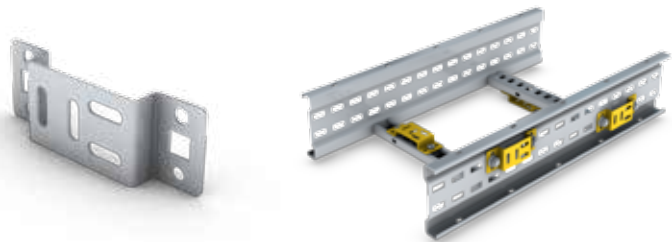
Speedway Tube Clamp Plate TCPo2 is used for direct fixing or for use with Speedway SW4, SW5 & SW6.



Tube Clamp Plate 03

Ref.SW/TCP03

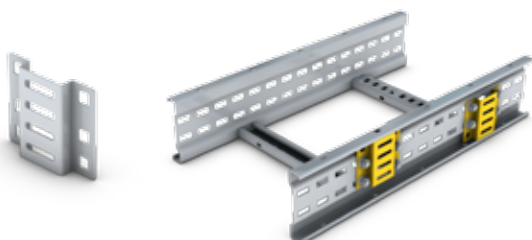
Speedway Tube Clamp Plate TCPo3 is suitable for direct fixing and for use with the Speedway Cable Ladder System. The TCPo3 is also suitable for the attachment to the Speedway Channel rung and will allow routing of instrumentation tubing with the cable space or along the underside of the Speedway Cable Ladder.



Tube Clamp Plate 04

Ref.SW/TCP04

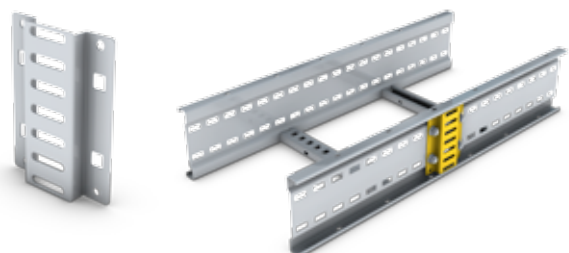
Speedway Tube Clamp Plate TCPo4 is used for direct fixing or for use with Speedway SW4, SW5 & SW6.



Tube Clamp Plate 05

Ref.SW/TCP05

Speedway Tube Clamp Plate TCPo5 is used for direct fixing or for use with Speedway SW6 only.





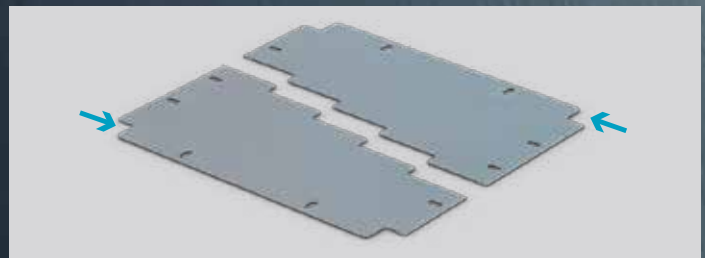
COVERS

Speedway Covers provide mechanical and environmental protection for cables on the cable ladder. Speedway Covers can be supplied in either closed or louvered configurations.

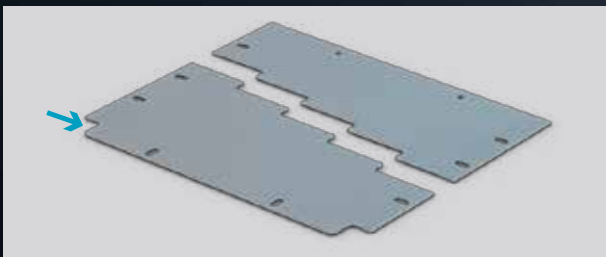
Speedway straight ladder covers are supplied in 1.5m lengths for ease of handling during installation and are 'handed' (i.e. the cover has a different slot and fixing arrangement at each end) but can be installed in either direction as the design of cable ladder fittings covers allow for connection to either end of the straight ladder covers.

Speedway straight ladder covers have an integral joint strip at one end to facilitate connection to abutting straight cable ladder or cable ladder fitting covers. Pre-formed M6 threads are provided at the opposite end of the cover to allow for ease of installation using M6 threaded bolts. The integral joint strip is fully slotted to allow for adjustment during installation.

Speedway Cable Ladder fittings covers are dimensioned to be an exact fit to the Speedway Cable Ladder fitting and are fitted with integral joint strips on all ends of the cover. Covers for risers will be supplied with easi-bend slots to allow the cover to be formed on site for attachment to the riser fitting.



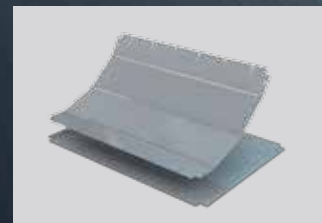
Integral Joint Strip Detail - Fittings Covers for fittings have an integral joint strip on each end



Integral Joint Strip Detail - Straight Ladder
Covers for straight ladder have an integral joint strip on one end



600mm Wide 300mm Radius
Flat Elbow Closed Cover



Riser Closed Cover
Supplied flat for forming on site

ACCREDITED TO THE
FOLLOWING STANDARD



Covers are supplied as standard in the gauges given in the following table. Other gauges up to and including 2mm are available to order.

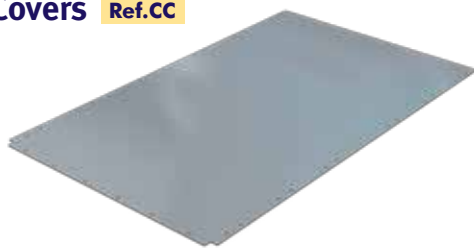
Finish & Material	Gauge
Stainless Steel	1.0mm
Hot Dipped Galvanised Mild Steel	1.2mm
Hot Dip Galvanised Silicon Rich Structural Steel	1.5mm
Deep Galvanised Silicon Rich Steel	1.5mm



SW / CC / SL1.5 / 600 / GA
System Type Cover Type Ladder Type Width Finish

For full details on how to order covers please consult the How To Order guide on pages 32 & 33

Closed Covers **Ref.CC**



Straight Ladder
Closed Cover

Closed covers fit directly onto the side walls of the Speedway Ladder & fittings to provide mechanical protection and shielding for cables and other equipment within the cable space.

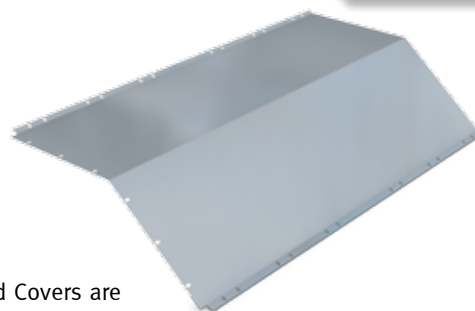
Closed covers of widths of 450mm and above are supplied with Bracing Kits (CBK) (see Bracing Kit Section). Closed Covers are punched with centreline slots to provide for water drainage.

Finishes & Materials:



Peaked Cover

Ref.CP



Peaked Covers are closed covers which are formed into a peak with an overall height of 50mm to shed sand, snow, water etc.

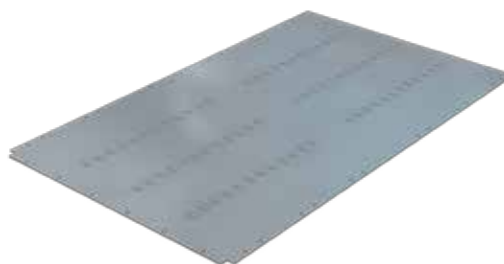
Finishes & Materials:



Louvered Covers **Ref.CL**

Louvered Covers are similar to closed covers but with the addition of louvres for improved air flow through the cable space. Louvered covers are particularly useful where heavy duty power cables are being used. Most traditional cable management systems offer a raised cover for ventilation.

Conventional raised covers have a number of considerations to be taken into account before installing them. First of which is that the cover will be susceptible to being lifted off in excessive winds, also the extra brackets and fixings will add to the installation time of each cover. Raised covers loading performance is far less than the loading performance of a close fitting louvered cover and due to the cover only being supported locally at the fixing point the raised cover is susceptible to sagging which will allow water and debris to build up. Louvered Covers of widths of 450mm and above are supplied with Bracing Kits (CBK) (see Bracing Kit Section).



Straight Ladder Louvre Cover

Finishes & Materials:



Fitting to Fitting Cover **Ref.CC/FFC or CL/FFC**

When joining two abutting cable ladder fittings with a Fitting to Fitting Coupler (FFC) a 200mm gap is created in the cover span. To ensure complete mechanical and environmental protection of the cables, a Fitting to Fitting Cover is required. Fitting to Fitting Covers will be fixed directly to the adjoining covers and will ensure complete protection of cables within the span.

Finishes & Materials:



Cover Fixing Kits **Ref.VCF**

Speedway covers are supplied complete with the required number of cover fixing kits (VCF3). The cover fixing kits are common to closed, louvered and peaked covers. The covers are secured to the ladder using pre-punched slots which are incorporated into the flanges of all Speedway ladder and fittings.

VCF3/G Cover Fixing Kit



GAM6x12BN - M6x12mm Roofing Bolt & Nut
GAM6SW - M6 Internal Shake Proof Washer
SSM6X12PH - M6x12mm Pan Head Screw

VCF3/S Cover Fixing Kit



SSM6x12PH - M6x12mm Pan Head Screw
SSM6FW - M6 Flat Washer
SSM6SW - M6 Internal Shake Proof Washer
SSM6HN - M6 Hex Nut

VCF8/S Cover Fixing Kit



SSM6x12PH - M6x12mm Pan Head Screw
SSM6SW - M6 Flat Washer
SSM6FW - M6 Internal Shake Proof Washer

It is recommended that additional cover kits are ordered to suit contingency requirements during installation (5% is suggested).

The number of fixing kits supplied with each type of cover is given in the following table:

Ladder & Fitting Type	Number
Straight Ladder	8
30° Flat Elbows	4
45° Flat Elbows	5
60° Flat Elbows	5
90° Flat Elbows	5
Inside & Outside Risers	1 per facet* with a minimum of 4
Equal & Unequal Tees	7
Crosses	8
Reducers	4

* N° of facets = N° of rungs plus 1. See Risers for details.



VCF3/SS Cover fixing kit shown securing cover to Speedway cable ladder

Bracing Kits

Bracing kits are provided for additional strengthening of closed and louvered covers for all widths of 450mm and above. Bracing kits are not required for covers of widths less than 300mm.

All closed and louvered covers of widths 450mm and above have pre-formed M6 threaded fixing holes as standard to accept the fixings for the bracing kits.

It is recommended that additional bracing fixing kits are ordered to suit contingency requirements during installation (10% is suggested).



When supplied as part of a cover assembly, the Speedway cover bracing kit will utilise the fixings supplied with the cover to cover connections.

Speedway Cover Bracing Kit
Comprising of a channel section and all necessary fixings



The following table gives the number of bracing kits supplied for each type of ladder & fitting cover:

Ladder & Fitting Type	Number of Bracing Kits		
	Widths \geq 450mm		2 per 1.5m cover
Straight ladder			
30° Flat Elbows	Widths \geq 450mm	Radius \leq 600mm	2 per cover
	Widths \geq 450mm	Radius $>$ 600mm	2 per cover
45° Flat Elbows	Widths \geq 450mm	Radius \leq 600mm	2 per cover
	Widths \geq 450mm	Radius $>$ 600mm	2 per cover
60° Flat Elbows	Widths \geq 450mm	Radius \leq 600mm	2 per cover
	Widths \geq 450mm	Radius $>$ 600mm	4 per cover
90° Flat Elbows	Widths \geq 450mm	Radius \leq 600mm	2 per cover
	Widths \geq 450mm	Radius $>$ 600mm	4 per cover
Inside Risers	Not Required		
Outside Risers			
Equal & Unequal Tees	All Widths \geq 450mm	Radius \leq 600mm	2 for Main Branch 1 for Side Branch
		Radius $>$ 600mm	4 for Main Branch 2 for Side Branch
Crosses	All Widths \geq 450mm	Radius \leq 600mm	4 per cover
		Radius $>$ 600mm	8 per cover
Reducers	Not Required		

It is recommended that additional bracing kits are ordered to suit contingency requirements during installation (5% is suggested).

Installation details for Speedway cover bracing kits showing assembly positions at the cover joint and at the cover mid point



SPEEDWAY

TECHNICAL DATA

This compilation of technical information is intended to supply essential details relating to the Speedway Cable Ladder System. This will ensure that the specified cable ladder installation has suitable strength & rigidity to provide reliable support at minimum installed cost.

Our Design Team is available to answer any questions relating to particular site requirements which may not be answered in the following sections.

Contents

1.0 Speedway Cable Ladder General Information	Page	3.0 Loading Information	Page
1.1 Slot Patterns	95	3.1 Dead Loads	105
1.2 Standard Material Gauges	96	3.2 Point Loads	105
1.3 Free Base Area	96	3.3 Load Deflection Tables	106
1.4 Cross-Sectional Area	96		
1.5 Speedway Cable Ladder Specification	97		
2.0 Installation	Page		
2.1 Loads	98		
2.2 Support Spacing	98		
2.3 Locations of Couplers	99		
2.4 Support Locations for Speedway Fittings	99		
2.4.1 Speedway Flat Elbows	100		
2.4.2 Speedway Inside & Outside Risers	100		
2.4.3 Speedway Equal & Unequal Tees	101		
2.4.4 Speedway Crosses	101		
2.4.5 Speedway Reducers	102		
2.5 Loading of Supports	102		
2.6 Electrical Continuity Characteristics	103		
2.7 Electromagnetic Compatibility (EMC)	103		
2.8 Assembly Recommendations	103		

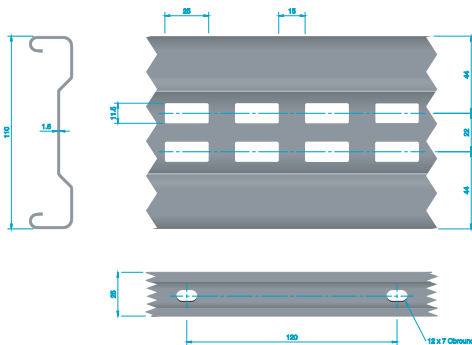


1. GENERAL INFORMATION

1.1 Slot Patterns

Details of the slot patterns for the Speedway cable ladder system are given in the following diagrams. These slot patterns are common for each Speedway cable ladder type, irrespective of material gauge.

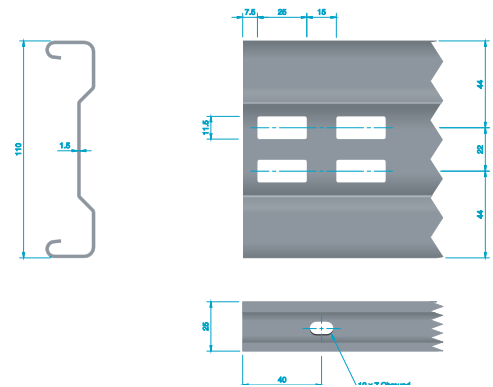
Speedway SW4 Straight Ladder



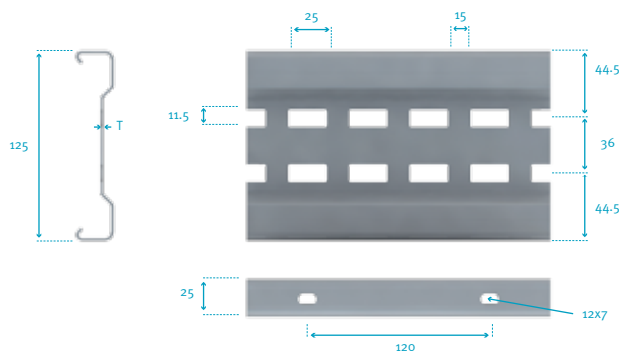
T = Side Wall Gauge (See section 1.2 for details).

Speedway SW4 Fittings

The slot pattern for the Speedway SW4 fittings is repeated at each end of the fitting side wall and centrally on radial side walls (elbows, tees & crosses).



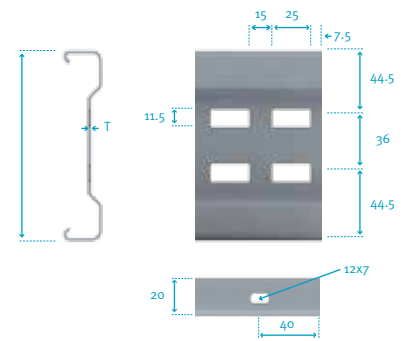
Speedway SW5 Straight Ladder



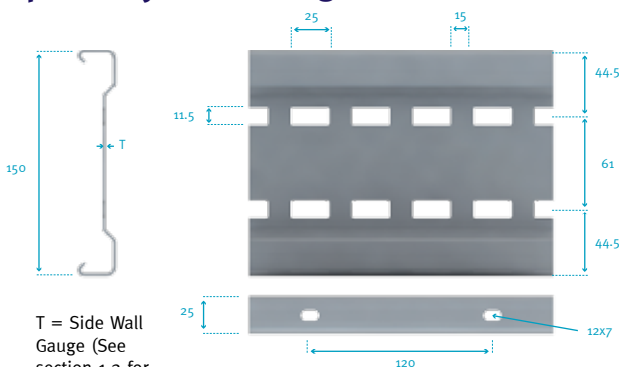
T = Side Wall Gauge (See section 1.2 for details).

Speedway SW5 Fittings

The slot pattern for the Speedway SW5 fittings is repeated at each end of the fitting side wall and centrally on radial side walls (elbows, tees & crosses).



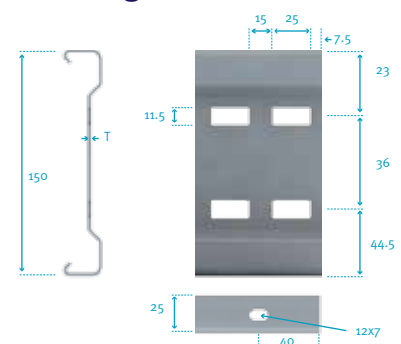
Speedway SW6 Straight Ladder



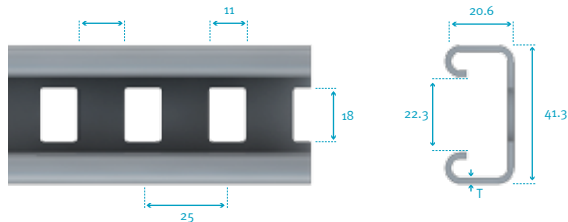
T = Side Wall Gauge (See section 1.2 for details).

Speedway SW6 Fittings

The slot pattern for the Speedway SW6 fittings is repeated at each end of the fitting side wall and centrally on radial side walls (elbows, tees & crosses).



Speedway Rung



T = Rung Gauge (1.5mm, 2.0mm or 2.5mm)

for the corresponding item in an alternative Finish and Material. For exact weights please contact our Technical Team.

Material Correction Factor		
Hot Dipped Galvanized Silicon Rich Steel		Stainless Steel
1.06		1.05

1.2 Standard Material Gauges

The gauges for the standard Speedway cable ladder & fittings have been determined by providing the most cost effective and efficient combination of material gauges for the side walls and rungs to suit the designed application of each type of Speedway cable ladder system.

The following table shows the standard material gauges for the Speedway cable ladder system in mild steel/hot dip galvanized finish (GA). These gauges are supplied as standard unless otherwise specified.

Standard Material Gauges

Ladder Type	Material & Finish	Side Wall Gauge	Rung Gauge						
			150 mm	300 mm	450 mm	600 mm	750 mm	900 mm	1050 mm
Speedway SW4	GA	1.5mm	1.5mm						
Speedway SW5		2mm							
Speedway SW6		2mm	2mm						

The Speedway cable ladder system is also available in a combination of side wall and rung gauge combinations from 1.5mm to 2.5mm to suit specific installation requirements.

Consult our Design Team for guidance on the correct selection of material gauge combinations.

Weights, where provided are for the Hot Dipped Galvanized Mild Steel item. The following correction factor should be used to determine the approximate weight

1.3 Free Base Area

Speedway straight cable ladder has the following free base area (FBA):

Ladder Type	Free Base Area	Classification to BS EN ISO 61537
Speedway SW4	86.5%	Y
Speedway SW5		
Speedway SW6		

1.4 Cross Sectional Area

Speedway cable ladder has the following cross-sectional area (CSA):

Speedway SW4 Ladder	CSA mm2	Speedway SW5 Ladder	CSA mm2	Speedway SW6 Ladder	CSA mm2
SW4/SL3/150/#	13780	SW5/SL/150/#	15975	SW6/SL/150/#	20075
SW4/SL3/300/#	26740	SW5/SL/300/#	30975	SW6/SL/300/#	38825
SW4/SL3/450/#	39700	SW5/SL/450/#	45975	SW6/SL/450/#	57575
SW4/SL3/600/#	52660	SW5/SL/600/#	60975	SW6/SL/600/#	76325
SW4/SL3/750/#	65620	SW5/SL/750/#	75975	SW6/SL/750/#	95075
SW4/SL3/900/#	78580	SW5/SL/900/#	75975	SW6/SL/900/#	113825
		SW5/SL/1050/#	105975	SW6/SL/1050/#	132575

Add Finish & Material.

> 1.5 Specification

The following is a typical specification for a cable ladder system which embodies the key features of the Speedway cable ladder system.

- 1 The cable ladder system shall be based on two longitudinal outward facing side members with returned edge flanges to improve safety during handling, installation and cablepulling activities. The longitudinal side members shall form the main structural elements of the cable ladder system and shall be longitudinally ribbed for enhanced stiffness and rigidity.
- 2 The profile of the side members shall remain constant for the straight cable ladder and the cable ladder fittings.
- 3 The profile of the side members shall present a smooth surface to allow for easier cable pulling and to minimise the opportunities for damage to the cable insulation.
- 4 The longitudinal side members shall have a height of:
 - 104mm and a flange width of 20mm (for Speedway SW4)
 - 125mm and a flange width of 25mm (for Speedway SW5)
 - 150mm and a flange width of 25mm (for Speedway SW6).
- 5 The longitudinal side member shall have a wall thickness of:
 - 1.5mm* (for Speedway SW4).
 - 2.0mm* (for Speedway SW5 1.5 & 2.0 Speedway SW6).
 * or required side wall thickness – see 1.2 for details.
- 6 The side members of the straight cable ladder shall be fully slotted to minimise weight. The slot pattern in the side members shall allow for cutting of the straight cable ladder at any point along the length without the need to drill the side member when connecting to adjacent straight cable ladder and cable ladder fittings using the standard means of coupling.
- 7 The two longitudinal side members shall be connected by individual transverse members (rungs) which shall be welded at low level to the inside face of the side members to give a loading depth of:
 - 78mm for Speedway SW4
 - 100mm for Speedway SW5 &
 - 125mm for Speedway SW6.
- 8 The transverse members shall be evenly spaced at 300mm centres along the length of the straight cable ladder. The transverse members for horizontal bends (flat elbows) shall be located at either 0° or 7.5° and

multiples there of around the fitting subject to a maximum spacing of 465mm between adjacent transverse members when measured as a linear distance along the outside face of the horizontal bend. The transverse members for horizontal intersection fittings (tees and crosses) shall be evenly spaced at intervals not exceeding 465mm. The transverse members for vertical bends (inside and outside risers) shall be evenly spaced at intervals not exceeding 300mm centres.

- 9 The transverse members shall be of channel profile with a width of 41mm and a height of 21mm. The transverse members shall have a continuous open slot to suit the mounting of cable restraint devices (cleats, etc.) and other equipment using standard channel nuts and fixings. The base of the transverse members shall have slots of size 18mm x 11mm at 25mm centres to suit the use of cable ties and banding.

- 10 The transverse members shall have a wall thickness of:

Hot Dip Galvanised Finish;

1.5mm* for widths up to and including 600mm, and a wall thickness of 2.0mm* for widths above 600mm (for Speedway SW4)

1.5mm* for widths up to and including 600mm, and a wall thickness of 2.0mm* for widths above 600mm (for Speedway SW5)

2.0mm* (for Speedway SW6)

Stainless Steel;

1.5mm* (for Speedway SW4)

2.0mm* (for Speedway SW5)

2.0mm* (for Speedway SW6)

Deep Galvanised Finish;

1.5mm* (for Speedway SW4)

1.5mm* (for Speedway SW5)

2.0mm* (for Speedway SW6)

* or required rung wall thickness – see 1.2 for details.

- 11 The transverse members for straight cable ladder shall be orientated with the continuous slot facing alternately upwards and downwards. The transverse members for cable ladder fittings shall be orientated with the continuous slot facing upwards to allow for the securing of cable restraint devices (cleats, etc.) at every rung position.
- 12 The width of the straight cable ladder and the cable ladder fittings shall be measured relative to the inside

faces of the side members. The widths of the straight cable ladder and cable ladder fittings shall be 150mm, 300mm, 450mm, 600mm, 750mm, 900mm & 1050mm.

- 13 The straight cable ladder shall have a length of 3000mm or 6000mm as specified.
- 14 The cable ladder fittings shall have fixed angles of 90°, 60°, 45° and 30°.
- 15 Radiused cable ladder fittings shall have a radius of 300mm, 450mm, 600mm, 750mm, 900mm, 1050mm & 1200mm. The radius of the fitting shall be measured relative to the inside face on the radiused side wall.
- 16 The cable ladder system shall be manufactured using:

For Mild Steel – Hot Dip Galvanized Finish; mild steel of grade D11 to BS EN 10111 and shall be hot dip galvanized after manufacture to BS EN ISO 1461.

For stainless steel: stainless steel grade 1.4404 (316 marine grade) to BS EN 10088.

For Silicon-rich Steel – Deep Galvanized Finish; silicon-rich steel (generally complying to grade S355 to BS EN 10025) and shall be deep galvanized after manufacture to twice the coating thickness specified by BS EN ISO 1461.

- 17 The couplers shall be profiled to match the profile of the cable ladder. The couplers shall be secured using M10 square-shouldered bolts with rounded heads. The bolts shall be secured with M10 serrated flanged nuts as standard. The couplers shall have a slot pattern which prevents slip between adjacent straight ladder lengths (including cut lengths of straight cable ladder) and between cable ladder fittings. The couplers shall have a slot pattern which allows for easy connection to cut lengths of straight cable ladder without the need for on - site drilling.

2. INSTALLATION RECOMMENDATIONS

2.1 Loads

A correctly designed and specified cable ladder installation should take into account the nature and extent of the loads which will be imposed on the cable ladder system. These loads comprise of dead loads including the self-weight of the cable ladder system, the weight of the cables and secondary equipment attached to the cable ladder, imposed loads which occur during installation of the cable ladder system and during cable pulling operations, and external loads such as wind, snow, & ice.

Cable ladders are often employed in locations where the wind speeds may cause considerable lateral loading and careful consideration must be given to design to ensure a satisfactory installation. An awareness of the worst possible climate conditions is necessary when specifying the correct Speedway cable ladder system.

The load-deflection information given in 3.4 is based on static loading of the Speedway cable ladder installation and does not take into account dynamic effects such as earthquake loading, etc.

In designing a cable ladder installation it is good practice to allow at least a 20% excess capacity in a new installation for future expansion. Such a provision is of great economic advantage when there is a later need for additional cables.

2.2 Support Spacing

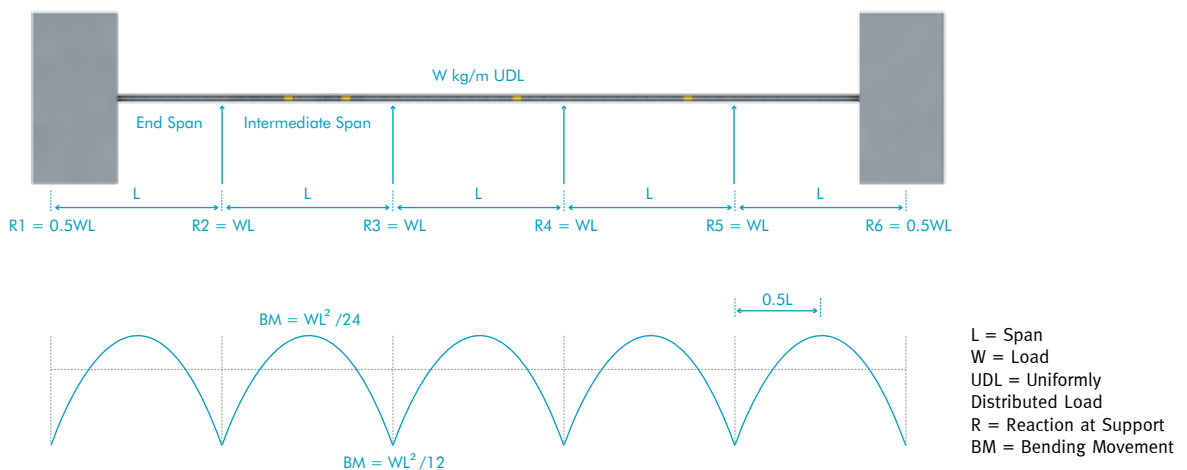
The space between the supports of a cable ladder installation is referred to as the span. Supports for cable ladder should, as far as practicable, be spaced so as to create the most economical load/span ratio to suit the capacity of the cable ladder system. This will give the most advantageous solution when considering procurement and installation costs. As a general rule of thumb, the load-carrying capability of the Speedway Cable Ladder system increases as the span decreases, so a lighter duty cable ladder system can be specified for shorter spans. Conversely, a heavier duty Speedway Cable Ladder system will need to be specified for longer spans.

When considering support positions it should be remembered that it is necessary to support accessories when a change of direction takes place i.e. bends, tees, risers etc. This is to ensure that undue 'corner' cantilever reaction is minimised. Recommendations for the location of supports for Speedway Cable Ladder fittings are given in section 2.4.

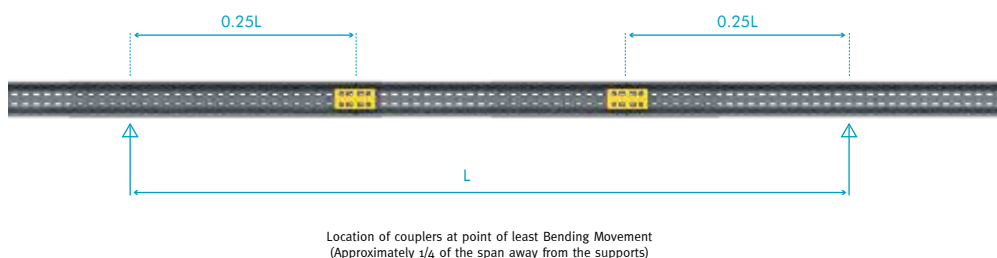
> 2.3 Location of Couplers

The maximum bending moments acting on a cable ladder run occur in the cable ladder side members at the supports and at the mid span position. For this reason it is good practice to avoid locating couplers in a cable ladder run either directly on supports or at the mid span position. It is also good practice to avoid locating couplers in the end span of a continuous beam installation as the bending moments in the end span are, for simple end support installations, much higher than those found in the intermediate spans.

These limitations cannot always be achieved in a cable ladder installation and are not a mandatory requirement for the Speedway coupling system where the loading information given in 3.3 is valid irrespective of the location of the couplers. The ideal positions to locate the connections in a cable ladder run are at approximately a quarter of a span from the supports where the bending moment, and hence the stress, are minimal. Positioning the couplers at the quarter span positions is of benefit during installation, assisting in alignment of the cable ladders and allowing unhindered securing of the cable ladder to the supports.



Bending Movement distribution for a continuous beam with fixed ends
(The Bending Movement for ends spans in a continuous beam with simple end supports will be higher than that shown)



> 2.4 Support Locations for Speedway Fittings

The following illustrations show the recommended support positions when installing Speedway cable ladder fittings.

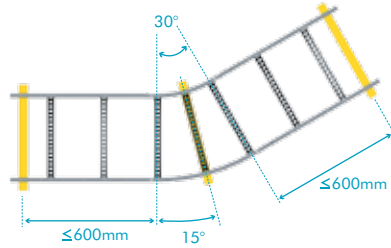
The supports should be fully fixed to provide maximum support for the Speedway cable ladder fitting.

For more specific recommendations relating to particular site installations please contact our Design Team.

➤ 2.4.1 Speedway Flat Elbows

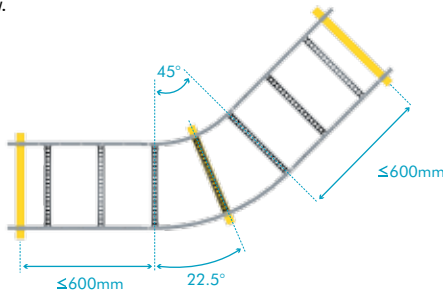
Speedway 30° Flat Elbows

For 30° flat elbows, supports should be placed within 600mm of the end of the flat elbow. For 30° flat elbows with radii of 450mm and above, an intermediate support should be located radially at 15° under the flat elbow.



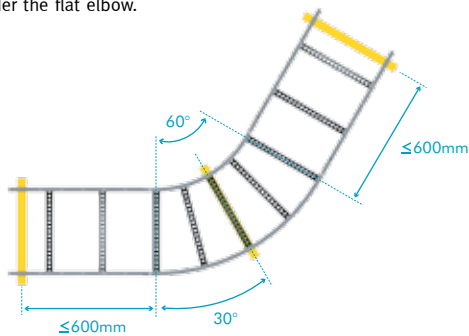
Speedway 45° Flat Elbows

For 45° flat elbows, supports should be placed within 600mm of the end of the flat elbow. For 45° flat elbows with radii of 450mm and above, an intermediate support should be located radially at 22.5° under the flat elbow.



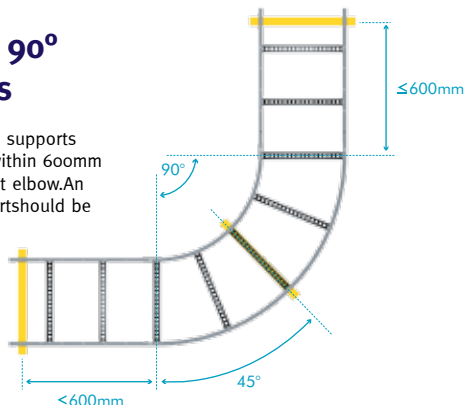
Speedway 60° Flat Elbows

For 60° flat elbows, supports should be placed within 600mm of the end of the flat elbow. An intermediate support should be located radially at 30° under the flat elbow.



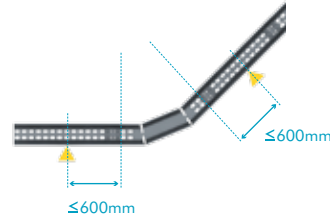
Speedway 90° Flat Elbows

For 90° flat elbows, supports should be placed within 600mm of the end of the flat elbow. An intermediate support should be located radially at 45° under the flat elbow.



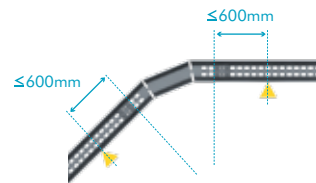
➤ 2.4.2 Speedway Inside & Outside Risers

Speedway Inside Risers (all angles)



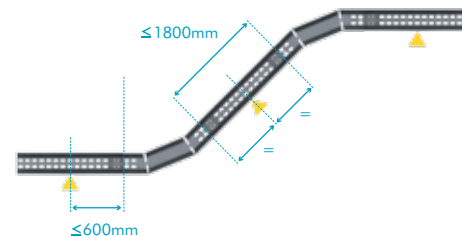
For inside risers (30°, 45°, 60° & 90°) supports should be placed within 600mm of the end of the inside riser.

Speedway Outside Risers (all angles)

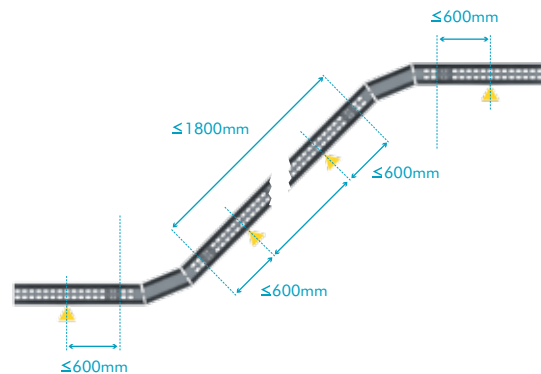


For inside risers (30°, 45°, 60° & 90°) supports should be placed within 600mm of the end of the inside riser.

Speedway Inside & outside Risers in Offset Arrangement



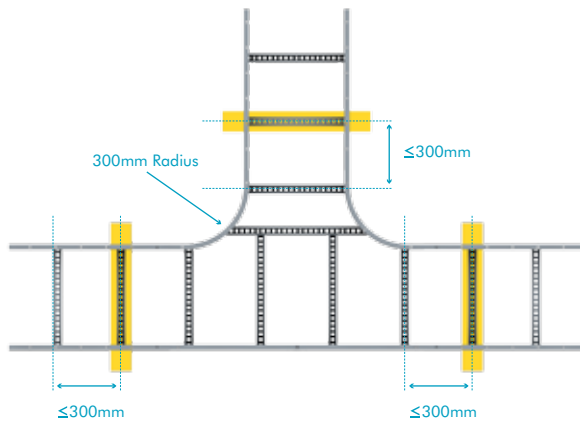
For inside & outside risers (30°, 45°, 60° & 90°) forming an offset of length up to 1800mm, supports should be placed within 600mm of the end of the offset and centrally on the inclined cable ladder.



For inside & outside risers (30°, 45°, 60° & 90°) forming an offset of length over 1800mm, supports should be placed within 600mm of the ends of the inside & outside risers. The inclined cable ladder should be supported in accordance with the support recommendations for a straight cable ladder run.

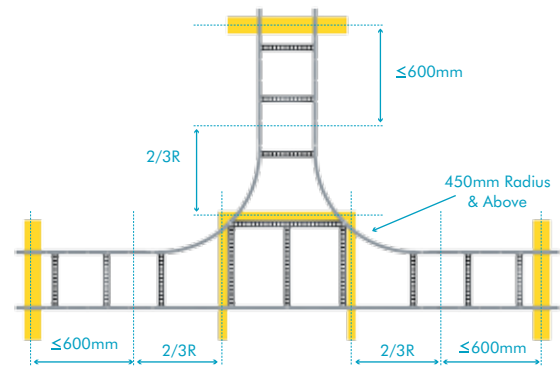
> 2.4.3 Speedway Equal & Unequal Tees

Speedway Equal & Unequal Tees (300mm Radius)



For equal and unequal tees with radii of 300mm, supports should be located within 300mm of the tee on each branch in the cable ladder run.

Speedway Equal & Unequal Tees (450mm Radius & Above)

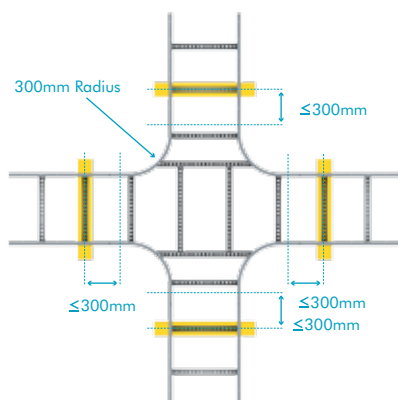


For equal and unequal tees with radii of 450mm and above, supports should be located within 600mm of the tee on each branch in the cable ladder run.

Intermediate supports should be placed at approximately $\frac{2}{3}$ of the radius (R) on each branch of the tee as shown.

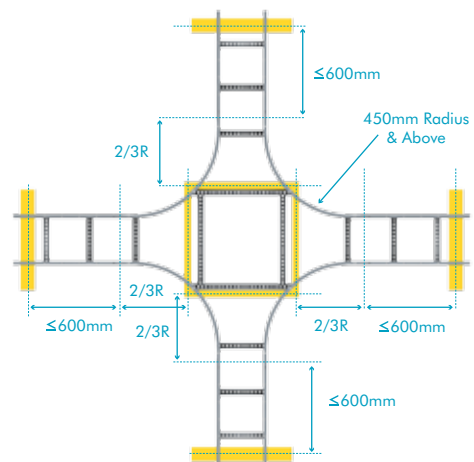
> 2.4.4 Speedway Crosses

Speedway Crosses (300mm Radius)



For crosses with radii of 300mm, supports should be located within 300mm of the cross on each branch in the cable ladder run.

Speedway Crosses (450mm Radius & Above)



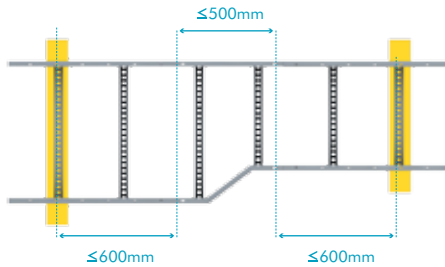
For crosses with radii of 450mm and above, supports should be located within 600mm of the cross on each branch in the cable ladder run.

Intermediate supports should be placed at approximately $\frac{2}{3}$ of the radius (R) on each branch of the cross as shown.

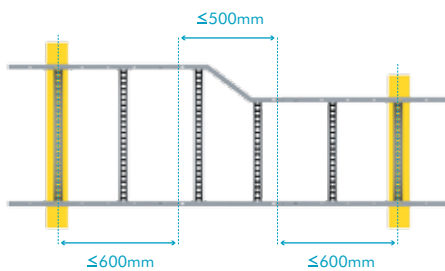
› 2.4.5 Speedway Reducers

For all widths of straight reducer, left-hand reducer, and right-hand reducer, supports should be located on the cable ladder run within 600mm of the reducer as shown.

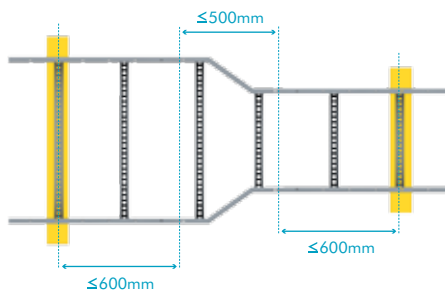
Speedway Right-Hand Reducer



Speedway Left-Hand Reducer



Speedway Straight Reducer



› 2.5 Loading of Supports

It is important that cable ladder and cable ladder supports are loaded in a symmetrical manner such that undue stresses are kept to a minimum.

The safe working load figures for the Speedway cable ladder and the Speedway cantilever type supports is based on a uniform loading within the Speedway cable ladder and on the assumption that the correct length of cantilever is used in each case.

Where cantilevers of additional length are used to support

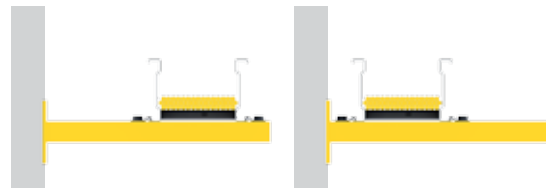
Speedway cable ladder, care should be taken to position the cable ladder as close to the backplate of the cantilever as the installation routing will allow.

Where the Speedway cable ladder is not filled to capacity, or is carrying heavy cables, care should be taken to position the cables as close to the cantilever backplate as the installation routing will allow.

For those installations where the routing of the cable ladder or the position of heavy cable loads cannot be undertaken in accordance with the above, the IC/PROP/Size cantilever arm prop should be used to correctly support the cantilever arm.

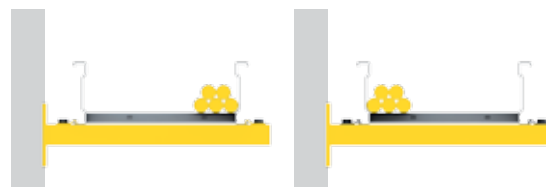
More details on the Safe Working Load of Speedway supports can be found in the Supports Section.

For further information and guidance on the loading of supports please contact our Design Team.



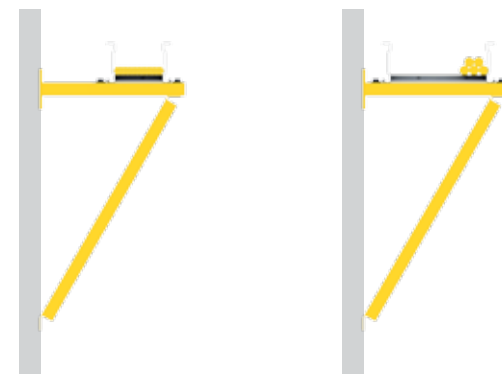
Avoid locating cable ladder on the end of cantilever support

Locate cable ladder close to the cantilever backplate



Avoid placing unsymmetrical cable loads on the extremes of cantilever supports

Locate unsymmetrical cable loads close to the cantilever backplate



Use the cantilever prop (IC/PROP/Size – See page 213) to support offset cable ladder or unsymmetrical cable loads.

> 2.6 Electrical Continuity Characteristics

In tests conducted to verify the electrical continuity characteristics of the Speedway cable ladder it has been established that the standard Speedway coupling system provides adequate electrical continuity, ensuring equipotential bonding and connection to earth.

The Speedway cable ladder system has been tested for electrical continuity to BS EN 61537 (Section 11.1). Details are given in the following table.

Electrical Continuity to BS EN 61537

Ladder Type	Material & Finish	Impedance across joint	Impedance per metre length
Speedway SW4	Hot Dip Galvanized	<50mΩ	<5mΩ
	Stainless Steel		
Speedway SW5	Hot Dip Galvanized		
	Stainless Steel		
Speedway SW6	Hot Dip Galvanized		
	Stainless Steel		

BS EN 61537 requires a maximum impedance of 50mΩ across the coupled joint and 5mΩ per metre length without a joint

The electrical continuity of the Speedway cable ladder joints has been tested to NEMA VE (Section 5.1). Details are given in the following table.

Electrical Continuity to NEMA VE 1

Ladder Type	Material & Finish	Resistance across joint
Speedway SW4	Hot Dip Galvanized	<33mΩ
	Stainless Steel*	
Speedway SW5	Hot Dip Galvanized	
	Stainless Steel*	
Speedway SW6	Hot Dip Galvanized	
	Stainless Steel	

NEMA VE 1 requires a net resistance of no more than 33mΩ across the coupled joint. * Requires use of earth bonding strap EBS01

Earth continuity bonding straps (part number EBS01) of cross sectional area 16 mm² are available for use with Speedway cable ladder where a non-conductive surface finish i.e. epoxy coated etc, has been specified or where the installation requires an additional means of bonding.

> 2.7 Electromagnetic Compatibility (EMC)

In normal use Speedway cable ladder can be considered to be passive in respect of electromagnetic influences, emission and immunity. When Speedway cable ladder is installed as part of a wiring installation, the installation may emit or may be influenced by electromagnetic signals. The degree of influence will depend on the nature of the installation within its operating environment and the electrical equipment connected by the wiring. As a minimum precaution to minimise the occurrence of electromagnetic influences, power and data/signal cables should be run on separate cable routings or at least separated by means of dividers.

Our Design Team should be consulted for further information on electromagnetic compatibility issues.

> 2.8 Assembly Recommendations

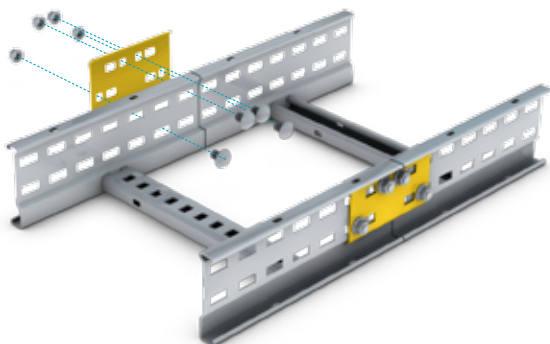
Instructions for the correct assembly of Speedway straight couplers and expansion couplers are given below.

Speedway Straight Couplers

The Speedway straight couplers are supplied with the correct number of fixing sets (4 for Speedway SW4 and 8 for Speedway SW5 & SW6), each comprising of an M10 x 20 square shouldered bolt and an M10 serrated flanged nut.

- 1 Locate the Speedway straight coupler on the outside of the two abutting components of the Speedway cable ladder installation (ladder to ladder) with the profile of the straight coupler aligned to the central ribbed profile on the abutting components.
- 2 Position the Speedway straight coupler over the two components such that a series of square apertures are created by the alignment of the slot patterns in the coupler and the slot patterns in the two abutting components. For joints between uncut Speedway cable ladders, the straight coupler should sit centrally across the joint. For connecting cut sections of Speedway cable ladder it may be necessary to reposition the coupler to create the series of square apertures.

- 3 Insert an M10X16/18 square shouldered bolt into one of the square apertures from the inside of the Speedway cable ladder with the threaded portion of the bolt protruding



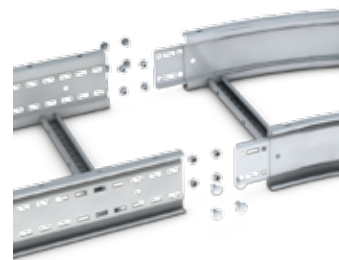
- 4 Fit an M10 Serrated Flange Nut onto the threaded portion of the bolt.
- 5 Tighten the fixing assembly by hand.
- 6 Repeat for the remaining fixing sets.
- 7 Fully secure the abutting components to the supporting structure.
- 8 Check the alignment of the Speedway straight coupler and the abutting components and adjust as necessary to give a fair and true alignment.
- 9 Tighten the hex nuts on the Speedway straight coupler to a torque of 46Nm.

Speedway Integral Coupler Assembly

Speedlok Speedway Fittings are supplied with the correct number of fixing sets for that type of fitting, each comprising of an M10 x 20 square shouldered bolt, an M10 serrated flange nut.

1. Position the Straight Length of Speedway Cable Ladder on the inside of the Integral Couplers of the Speedway fitting with the Integral Coupler lying over the web of the Speedway profile.
2. Position the Speedway Integral Coupler so that a series of square apertures are created by the alignment of the slot patterns in the coupler and the straight ladder.
3. Insert an M10 x 20 square shouldered bolt into one of the square apertures from the inside of the Speedway cable ladder with the threaded portion of the bolt protruding through the side wall of the ladder and the Speedway Integral Coupler.

4. Fit an M10 Serrated Flange Nut onto the threaded portion of the bolt.
5. Tighten the fixing assembly by hand.
6. Repeat for the remaining fixing sets.
7. Fully secure the abutting components to the supporting structure.
8. Check the alignment of the Speedway Integral Coupler and the abutting components and adjust as necessary to give a fair and true alignment.
9. Tighten the flange nuts on the Speedway straight coupler to a torque of 46Nm.



Speedway Expansion Couplers

The Speedway expansion couplers are supplied with 8 fixing sets, each comprising of an M10 x 25 square shouldered bolt, an M12 flat washer, an M10 shake-proof washer and an M10 hex nut. Refer to page 247 for details on the spacing between expansion couplers and the required gap setting procedure at the time of installation.

1. Locate the Speedway expansion coupler on the outside of the two abutting Speedway cable ladders with the profile of the expansion coupler aligned to the central ribbed profile on the Speedway cable ladders. NOTE: the expansion coupler should not be used to connect cut sections of cable ladder.
2. Position the Speedway expansion coupler equally over the two abutting Speedway cable ladders such that a series of square apertures are created by the alignment of the slot pattern in the coupler and the slot pattern in the cable ladders.
3. Insert an M10 x 25 square shouldered bolt into one of the square apertures from the inside of the Speedway cable ladder with the threaded portion of the bolt protruding through the Speedway cable ladder and the Speedway expansion coupler.
4. Fit a M12 flat washer and a M10 hex nut onto the threaded portion of the M10x25 bolt.
5. Tighten the fixing assembly by hand such that it is free to move within the slots of the Speedway cable ladder and the Speedway expansion coupler (some light resistance to movement is preferable).
6. Repeat for the remaining fixing sets.
7. Check the alignment of the Speedway expansion

coupler and the Speedway cable ladders and adjust as necessary to give a fair and true alignment.

8. Check the setting gap (See page 247)
9. Secure the Speedway cable ladders to the supporting structure using external flange clamps (SW/EFC See page 75) and nylon spacer pads (315AN10 See page 236).
10. Fit a second M10 hex nut onto each of the hand tightened assemblies. Using a M10 spanner to hold the first M10 hex nut in place, tighten the second M10 hex nut to a torque of 46Nm. Check that the completed

assembly is free to move (some light resistance to movement is preferable).

11. Repeat for the remaining fixing sets.
12. Check the installed Speedway expansion coupler for freedom of movement (some light resistance to movement is preferable).

Consult our Technical Team for installation instructions for the Speedway full moment expansion coupler.

3. Loading Information

To enable the selection of the most appropriate Speedway cable ladder for a particular installation it is necessary to consider the loads which must be supported and the distance between supports (the span). These loads are broadly classed as dead loads, imposed loads (see page 251) and point loads.

3.1 Dead Loads

Dead loads include the weight of any cables, pipes and secondary equipment carried on or installed on the cable ladder plus the self weight of the cable ladder and any component of the cable ladder (covers, connectors, accessories, etc.).

Weight data for cables is readily available from the cable manufacturer or supplier and is usually quoted in terms of kilograms per metre (kg/m). The weight per metre from the cables (or pipes, etc) is the sum of the individual cable (or pipe, etc) weights. Weight data for secondary equipment should also be readily available from the equipment manufacturer or supplier and is usually quoted in terms of kilograms (kg). The unit weight for the secondary equipment can be converted into a equivalent weight per metre by using the following formula:

$$\text{Equivalent weight per metre } W_m = \frac{2 \times \text{unit of equipment (kg)}}{\text{Span (m)}} \text{ kg/m}$$

For example, a secondary item of equipment with a weight of 12kg has an equivalent weight per metre W_m of 8kg/m for a span of 3m. This figure should be added to the sum of the individual cable weights (or pipe, etc). When determining the location of secondary items of equipment, care should be taken to either mount these items centrally across the cable ladder using the Speedway mounting plates, or place these items adjacent to, or directly onto, the cable ladder side members and as close to the cable ladder supports as the installation will allow.

The allowable loading figures given in the tables overleaf include the self weight of the Speedway cable ladder. The weight data for additional installed components (covers, mounting accessories, etc) for the Speedway cable ladder system can be provided on request by our Design Team.

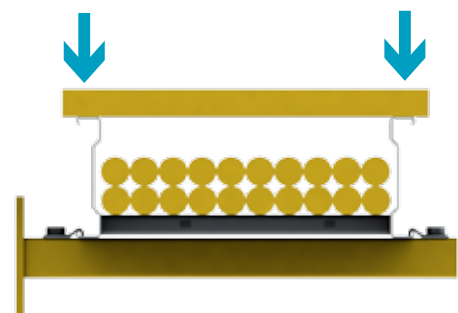
3.2 Point Loads

Point loads are often applied to the cable ladder during installation, cable pulling and in-service inspection.

An allowance can be made for the influence of point loads at the design stage when determining the total load to be carried by the Speedway cable ladder system. Typical point loads are in the order of 75kg to 150kg. When specifying a point load requirement it should be noted that the value of the point load should be kept to a minimum as incorporating the point load will reduce the allowable cable load for the Speedway cable ladder. Loading graphs which include the influence of a mid span point load are available on request.

Speedway cable ladder is not intended to be used as a walkway and on no account should point loads be applied to the rungs. On those occasions where it is necessary to apply a point load care should be taken to apply the load evenly onto the two side members, preferably using a board or similar support to distribute the load over as long a section of the cable ladder as possible.

Correct application of point load onto Speedway cable ladder using a board to spread the load evenly onto the side members



► 3.3 Load-Deflection Tables

When correctly mounted and secured, cable ladder can be considered to be a 'continuous beam'. This implies that the cable ladder run is regularly supported and that the cable ladders at the extremities of the run are firmly anchored. The following tables are used to calculate the safe working load and have been verified by testing in accordance to BS EN 61537. The load bearing capacity of a cable ladder is limited by the lesser of the maximum allowable stress induced in the side members and rungs or the maximum deflection acceptable in the same members. The maximum allowable stress is usually limited by the materials lower yield stress; this gives a safety factor of 1.7 against the ultimate tensile strength.

Maximum deflection, (in the absence of a particular customer need) is not allowed to exceed 1/360th of the distance between supports (span) longitudinally or 1/200th of the rung length (cable ladder width) transversely.

Although unusual, there may be occasions when it is difficult or indeed impossible to anchor the cable ladder securely in position. Under these circumstances the ladder is 'simply supported' and its load bearing ability is substantially reduced. As a rough guide maximum loads should be limited to two thirds of those shown in the loading tables and increased deflection values should be accepted for each span.

The data given in the tables is for Vantrunk cable ladder installed as a continuous beam and allows for the weight of the ladder itself. The safe working load values represent a uniformly distributed load and a factor of 1.7 as recommended in the cable ladder European standard. This information is given for guidance only and larger safety factors can be used depending on the installation. The Speedway Cable Ladder system, components and accessories have been tested to BS EN ISO 61537.

Further details are can be provided by our Design Team.

Loading Data - Vantrunk Extreme Steel Hot Dip Galvanized Finish

Ladder Type	Width w mm	Span & Safe Working Load kg/m									
		2m	2.5m	3m	3.5m	4m	4.5m	5m	5.5m	6m	
SW4/SL/150/G	150	542	346	239	175	133	-	-	-	-	
SW4/SL/300/G	300	542	345	238	174	132	-	-	-	-	
SW4/SL/450/G	450	541	345	238	173	132	-	-	-	-	
SW4/SL/600/G	600	470	344	237	173	131	-	-	-	-	
SW4/SL/750/G	750	369	343	236	171	130	-	-	-	-	
SW4/SL/900/G	900	254	254	235	171	129	-	-	-	-	
SW4/SL/1050/G	1050	184	184	184	170	128	-	-	-	-	
SW5/SL/150/G	150	-	-	491	359	274	215	173	-	-	
SW5/SL/300/G	300	-	-	491	359	273	214	172	-	-	
SW5/SL/450/G	450	-	-	490	358	273	214	172	-	-	
SW5/SL/600/G	600	-	-	490	358	272	213	171	-	-	
SW5/SL/750/G	750	-	-	367	356	271	212	170	-	-	
SW5/SL/900/G	900	-	-	251	251	251	211	169	-	-	
SW5/SL/1050/G	1050	-	-	181	181	181	181	168	-	-	
SW6/SL/150/G	150	-	-	-	-	357	280	226	185	155	
SW6/SL/300/G	300	-	-	-	-	356	280	225	185	154	
SW6/SL/450/G	450	-	-	-	-	355	279	224	184	153	
SW6/SL/600/G	600	-	-	-	-	354	278	223	183	152	
SW6/SL/750/G	750	-	-	-	-	354	277	222	182	152	
SW6/SL/900/G	900	-	-	-	-	251	251	222	182	151	
SW6/SL/1050/G	1050	-	-	-	-	181	181	181	181	150	

Loading Data - 1.4404 Stainless Steel (316 Marine Grade)

Ladder Type	Width w mm	Span & Safe Working Load kg/m									
		2m	2.5m	3m	3.5m	4m	4.5m	5m	5.5m	6m	
SW4/SL/150/SS	150	473	301	208	152	115	-	-	-	-	
SW4/SL/300/SS	300	473	301	208	151	115	-	-	-	-	
SW4/SL/450/SS	450	472	300	207	151	114	-	-	-	-	
SW4/SL/600/SS	600	445	300	207	150	114	-	-	-	-	
SW4/SL/750/SS	750	282	282	206	150	113	-	-	-	-	
SW4/SL/900/SS	900	194	194	194	149	113	-	-	-	-	
SW4/SL/1050/SS	1050	140	140	140	140	112	-	-	-	-	
SW5/SL/150/SS	150	-	-	429	314	239	188	152	-	-	
SW5/SL/300/SS	300	-	-	429	313	239	188	151	-	-	
SW5/SL/450/SS	450	-	-	428	313	238	187	150	-	-	
SW5/SL/600/SS	600	-	-	427	312	237	186	149	-	-	
SW5/SL/750/SS	750	-	-	350	312	238	186	150	-	-	
SW5/SL/900/SS	900	-	-	240	240	237	186	149	-	-	
SW5/SL/1050/SS	1050	-	-	174	174	174	174	149	-	-	
SW6/SL/300/SS	300	-	-	-	-	311	244	196	161	134	
SW6/SL/450/SS	450	-	-	-	-	310	243	196	160	134	
SW6/SL/600/SS	600	-	-	-	-	309	243	195	160	133	
SW6/SL/750/SS	750	-	-	-	-	308	242	194	159	132	
SW6/SL/900/SS	900	-	-	-	-	308	241	194	158	131	
SW6/SL/1050/SS	1050	-	-	-	-	237	237	193	158	131	
SW6/SL/3/1050/G	1050	-	-	-	-	171	171	171	157	130	

Loading Data - Silicon-rich Steel Deep Galvanized Finish

Ladder Type	Width w mm	Span & Safe Working Load kg/m									
		2m	2.5m	3m	3.5m	4m	4.5m	5m	5.5m	6m	
SW4/SL/150/GX	150	681	435	301	220	167	-	-	-	-	
SW4/SL/300/GX	300	681	434	300	219	167	-	-	-	-	
SW4/SL/450/GX	450	680	433	299	219	166	-	-	-	-	
SW4/SL/600/GX	600	456	433	299	218	166	-	-	-	-	
SW4/SL/750/GX	750	288	288	288	216	164	-	-	-	-	
SW4/SL/900/GX	900	197	197	197	197	163	-	-	-	-	
SW4/SL/1050/GX	1050	142	142	142	142	142	-	-	-	-	
SW5/SL/150/GX	150	-	-	619	453	346	272	219	-	-	
SW5/SL/300/GX	300	-	-	618	452	345	271	219	-	-	
SW5/SL/450/GX	450	-	-	617	452	344	271	218	-	-	
SW5/SL/600/GX	600	-	-	454	451	344	270	217	-	-	
SW5/SL/750/GX	750	-	-	287	287	287	269	216	-	-	
SW5/SL/900/GX	900	-	-	196	196	196	196	196	-	-	
SW5/SL/1050/GX	1050	-	-	141	141	141	141	141	-	-	
SW6/SL/450/GX	450	-	-	-	-	449	353	285	234	195	
SW6/SL/600/GX	600	-	-	-	-	448	352	284	233	195	
SW6/SL/750/GX	750	-	-	-	-	447	351	283	232	194	
SW6/SL/900/GX	900	-	-	-	-	446	351	282	232	193	
SW6/SL/1050/GX	1050	-	-	-	-	355	350	281	231	192	
SW6/SL3/900/GX	900	-	-	-	-	242	242	242	230	191	
SW6/SL3/1050/GX	1050	-	-	-	-	174	174	174	174	174	