



Available in electro-zinc, hot-dipped galvanised and stainless steel finishes, Marco Steel Wire Cable Tray is offered in four depths – 30mm, 55mm and 106mm. A wide range of fittings is available to join and support the Steel Wire Cable Tray.

The following section is intended to be used as a guide to fabricating Steel Wire Cable Tray fittings on site.

REDUCERS

Example of MC55300 - MC55200
MCCA x 3
Or MCCB x 2 plus MCSP x 50mm

MC55300 & MC5100

Typical Fabricated Reducer Components		
MCCA		x2
MCCA		x2
MCSP		x1
All bends can be easily fabricated on site		

WIRE CUTTING DIRECTIONS

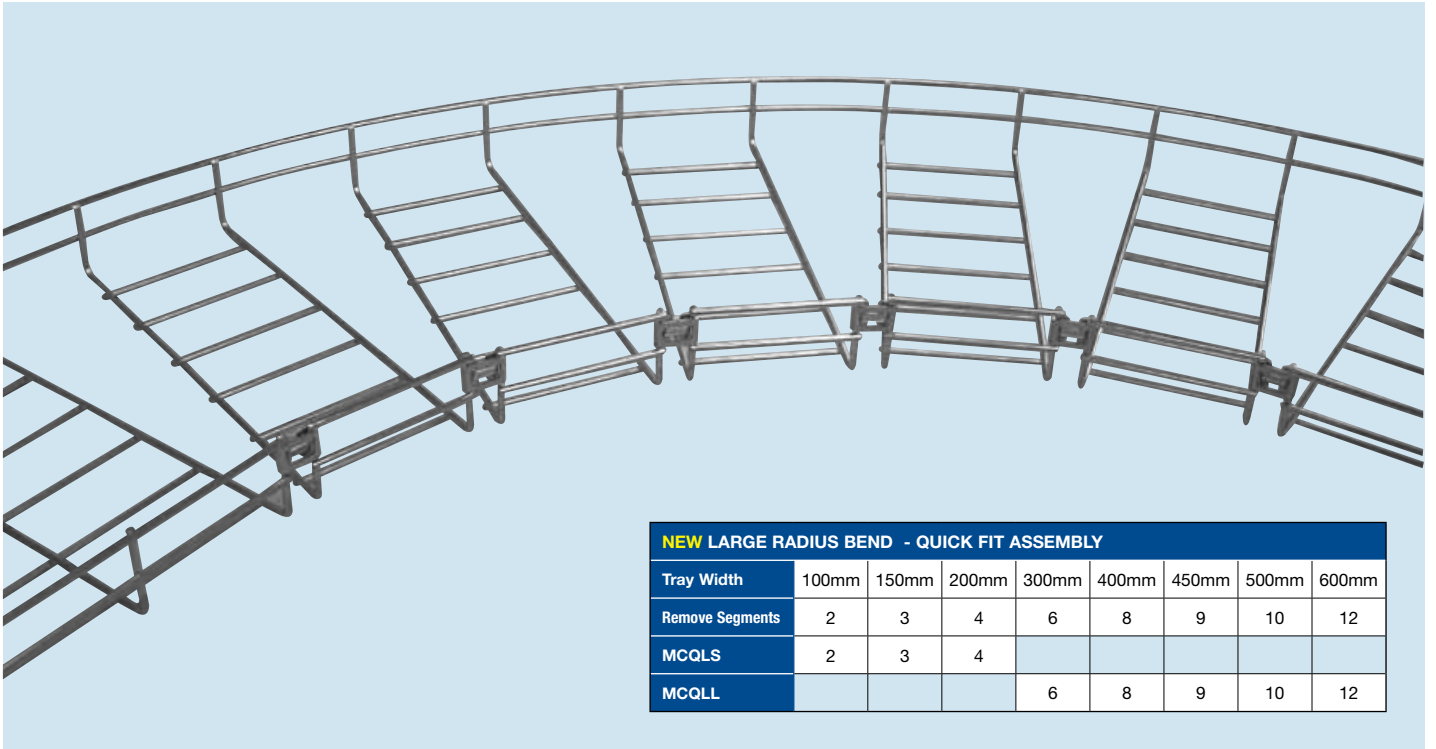
CORRECT

INCORRECT

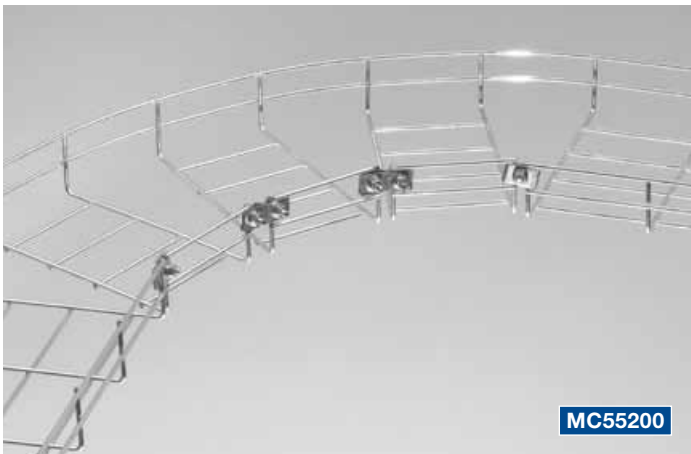


STEEL WIRE CABLE TRAY

fabrication guide - large radius bend

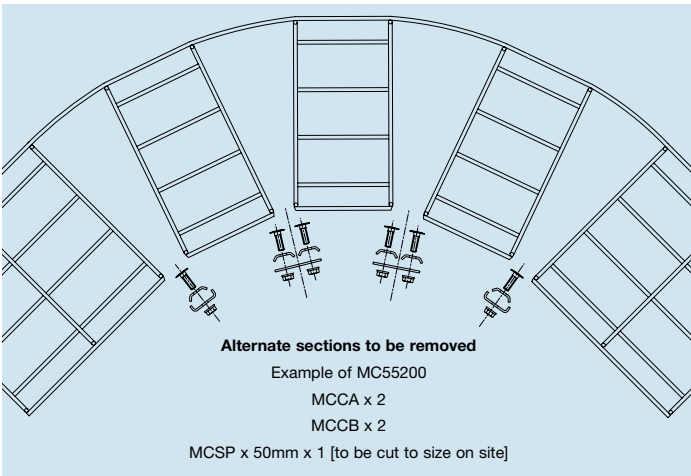


NEW LARGE RADIUS BEND - QUICK FIT ASSEMBLY								
Tray Width	100mm	150mm	200mm	300mm	400mm	450mm	500mm	600mm
Remove Segments	2	3	4	6	8	9	10	12
MCQLS	2	3	4					
MCQLL				6	8	9	10	12

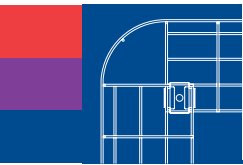


TRAY WIDTH	FASTENING TYPE	MCCB	MCCA	REMOVED SEGMENTS		
50mm	MCCB x 4		x4	1	2	
100mm	MCCB x 2 MCSP x 50mm x 1		x3		3	
150mm	MCCB x 2 MCSP x 50mm x 1		x4		4	
200mm	MCCA x 2 MCCB x 2 MCSP x 50mm x 1		x2		x2	4
300mm	MCCA x 4 MCCB x 2 MCSP x 50mm x 1		x2		x4	6
400mm 450mm	MCCA x 6 MCCB x 2 MCSP x 50mm x 1		x2		x6	8
500mm	MCCA x 9				x9	9
600mm	MCCA x 11				x11	11

All bends can be easily fabricated on site

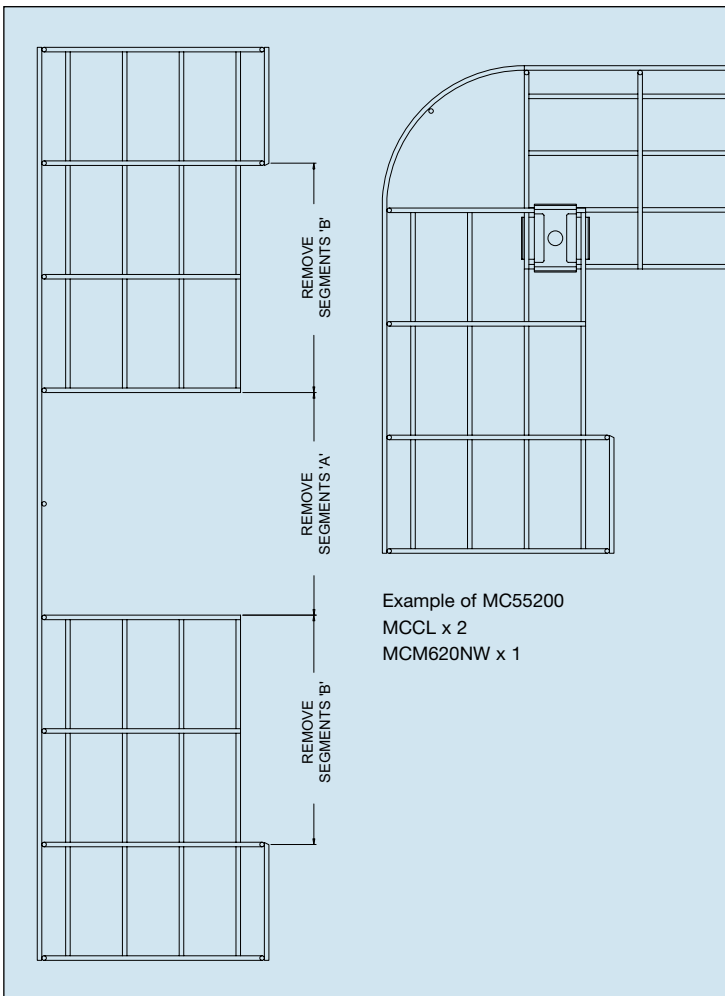
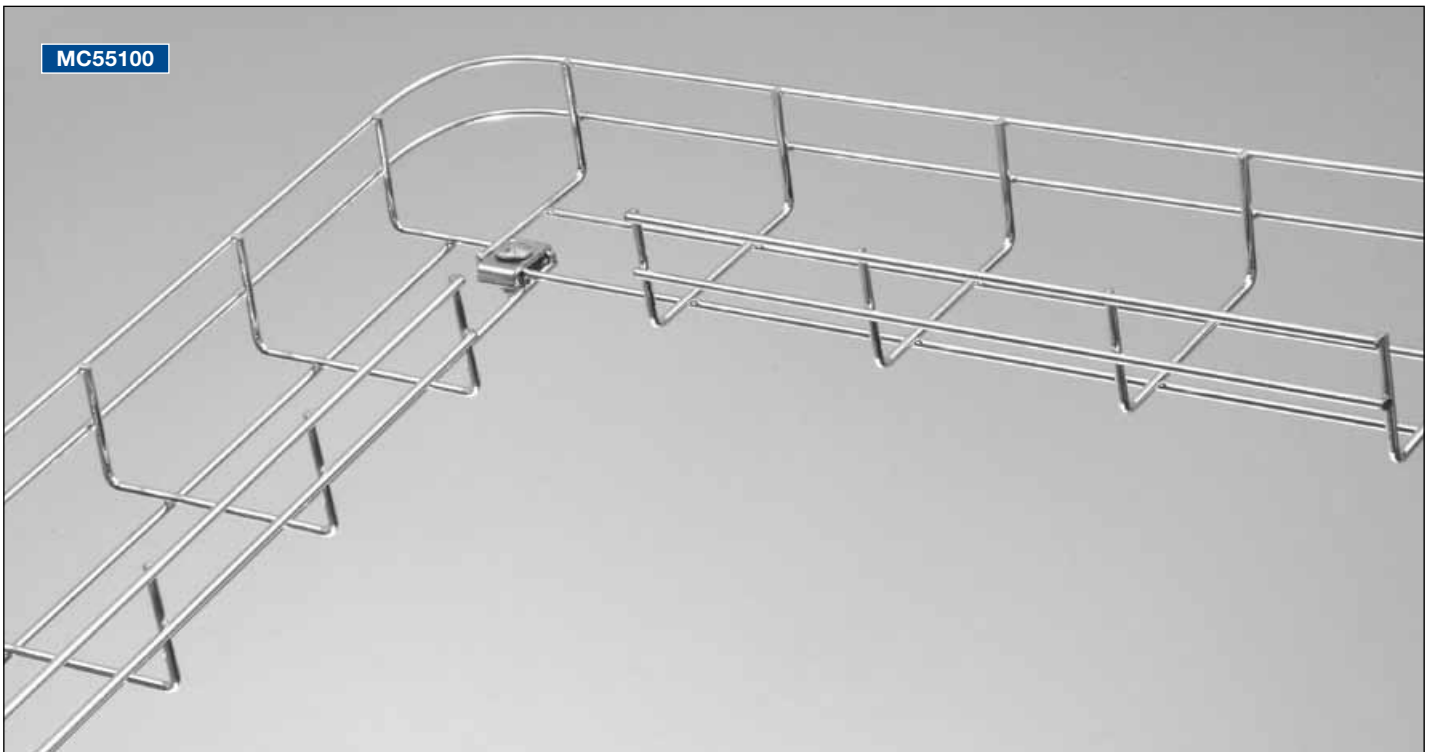




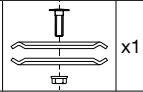
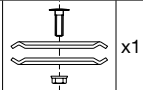
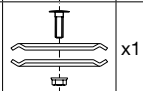
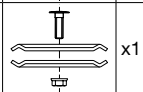
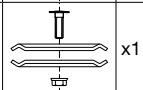
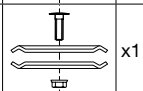
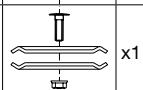
Standards
Marco Steel Wire Cable Tray conforms to the following standards: BSEN 61537:2007, IEC 61537



STEEL WIRE CABLE TRAY

fabrication guide - small radius bend



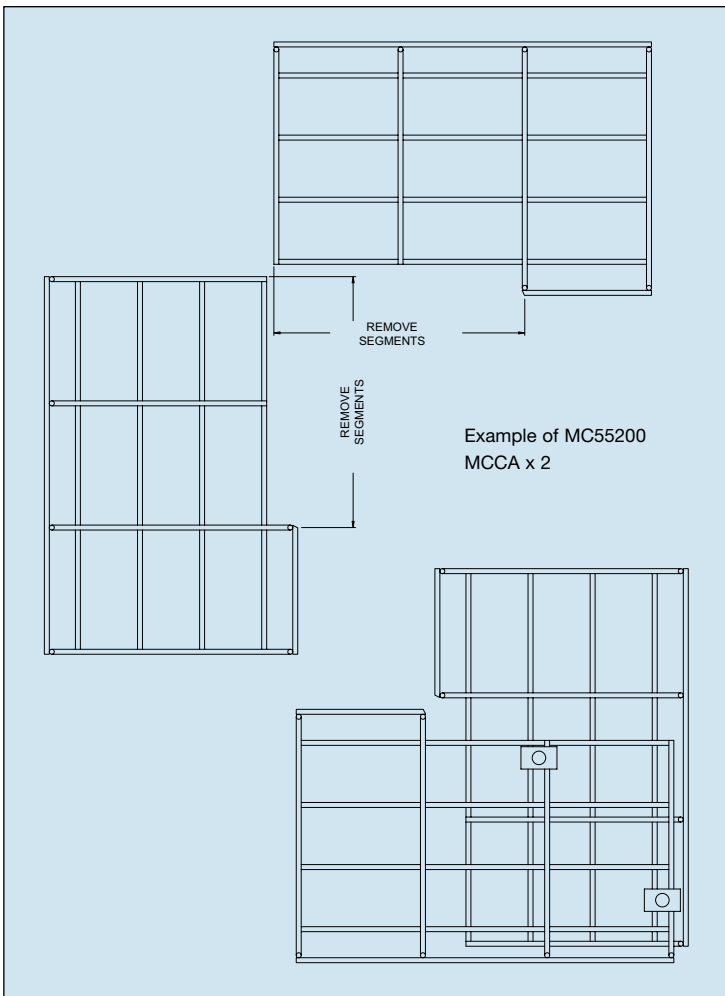
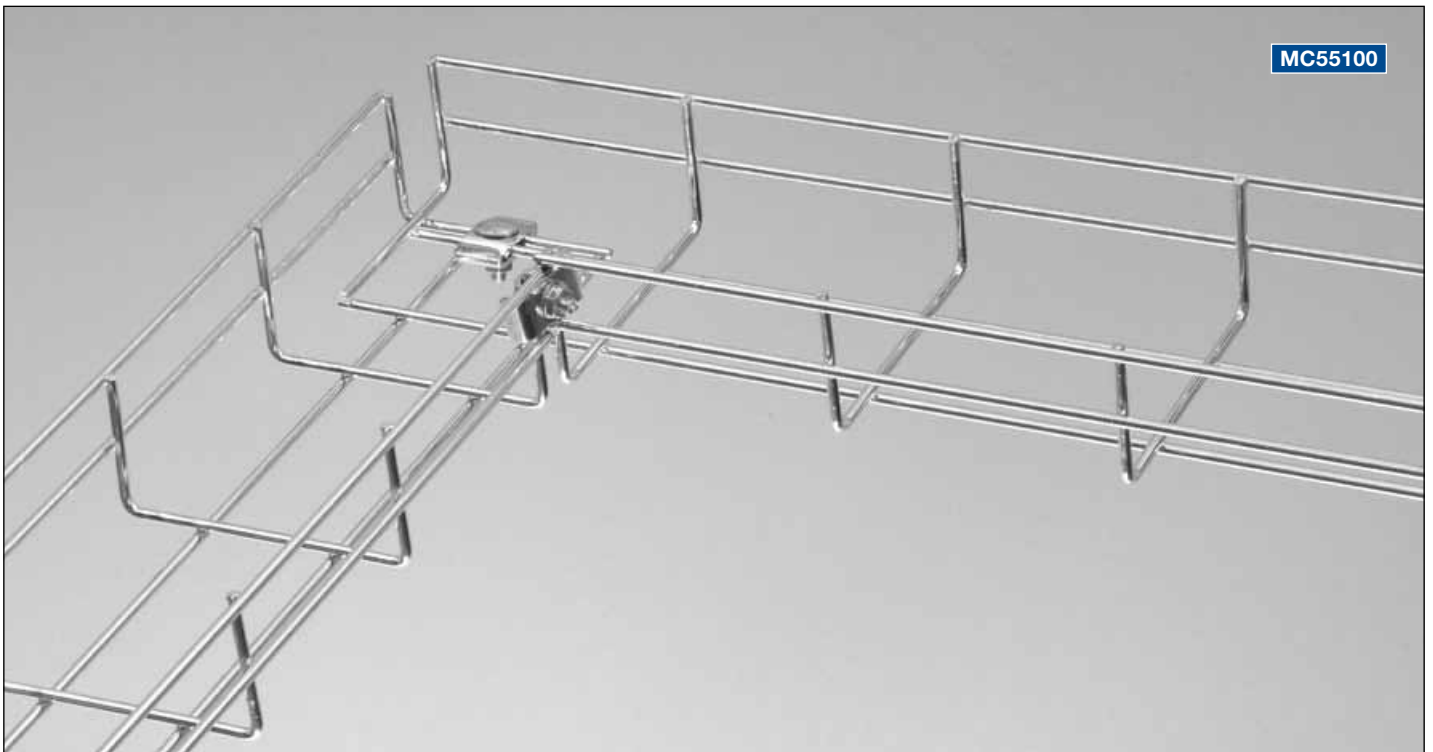
Tray Width	Fastening Type	MCNW620 MCCL x2	MCCA	Removed Segments 'A'	Removed Segments 'B'
50mm	MCCA		 x1	1	-
100mm	MCCA		 x1	1	1
150mm	MCCL x2 MCM620NW x1	 x1		1	2
200mm	MCCL x2 MCM620NW x1	 x1		2	2
300mm	MCCL x2 MCM620NW x1	 x1		2	4
400mm	MCCL x2 MCM620NW x1	 x1		2	4
450mm	MCCL x2 MCM620NW x1	 x1		2	4
500mm	MCCL x2 MCM620NW x1	 x1		2	5
600mm	MCCL x2 MCM620NW x1	 x1		2	6

All bends can be easily fabricated on site



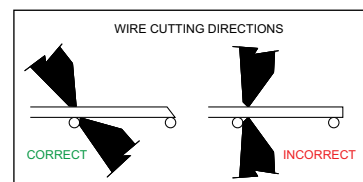
STEEL WIRE CABLE TRAY

fabrication guide - right angle bend



Tray Width	Fastening Type	MCCA	Removed Segments
100mm	MCCA		x2
150mm	MCCA		x2
200mm	MCCA		x2
300mm	MCCA		x2
400mm	MCCA		x2
450mm	MCCA		x2
500mm	MCCA		x2
600mm	MCCA		x2

All bends can be easily fabricated on site



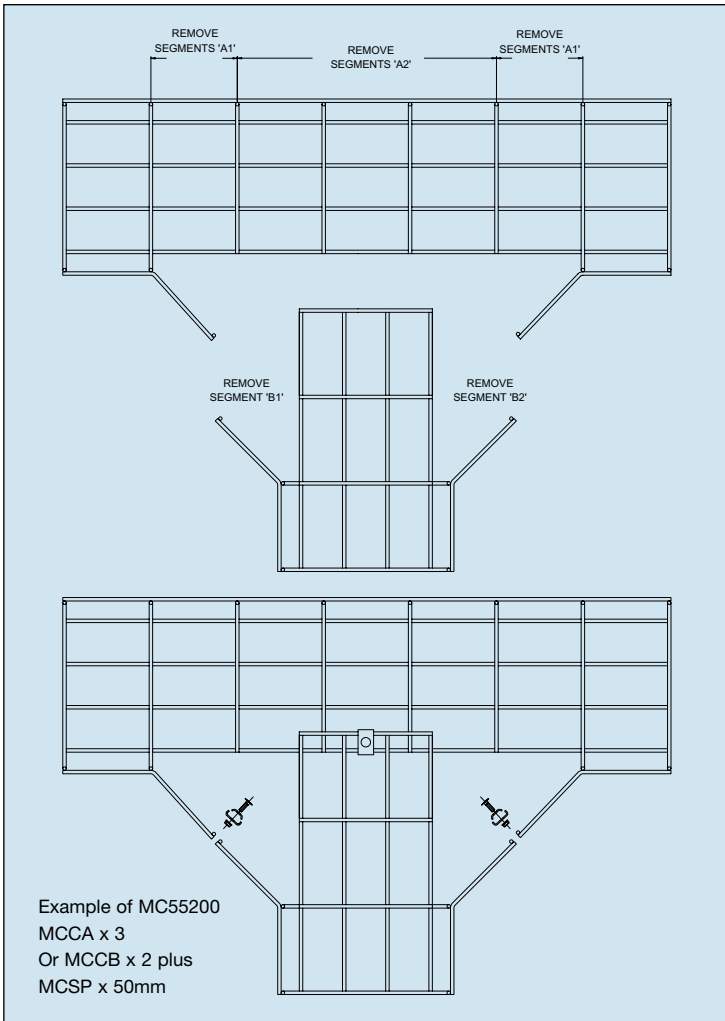
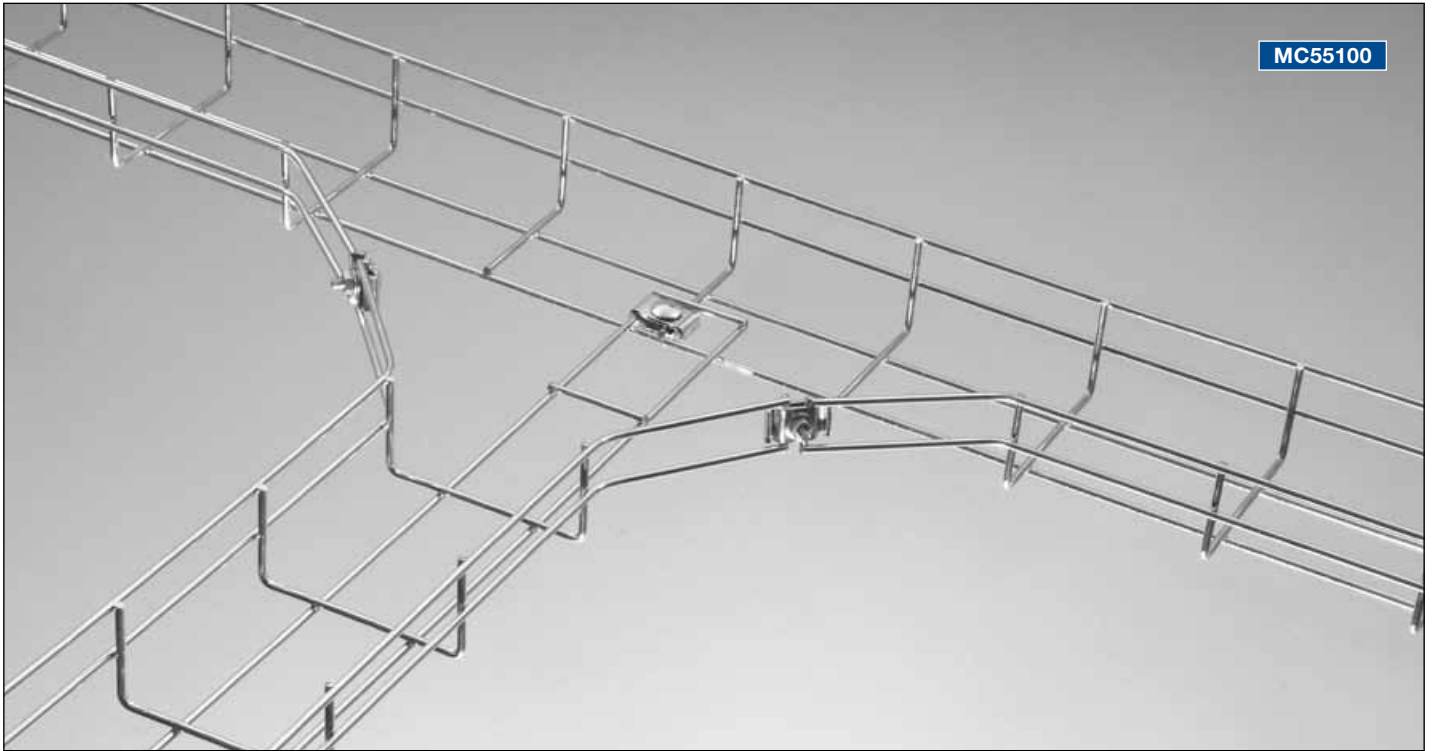
Standards

Marco Steel Wire Cable Tray conforms to the following standards:
BSEN 61537:2007, IEC 61537



STEEL WIRE CABLE TRAY

fabrication guide - radius tee-junction and crossovers



Tray Width	Fastening Type	MCCB	MCCA	Removed Segments		Removed Segments	
				A1	A2	B1	B2
100mm	MCCA		x3			1	1
150mm	MCCA MCCB x2 MCSP x50mm	x2	x1	3	2	1	1
200mm	MCCA		x3	3	2	1	1
300mm	MCCA		x4	4	2	1	1
400mm	MCCA		x4	5	2	1	1
450mm	MCCA		x4	5	2	1	1
500mm	MCCA MCCB x2 MCSP x50mm	x2	x2	6	2	1	1
600mm	MCCA MCCB x2 MCSP x50mm	x2	x2	6	2	1	1

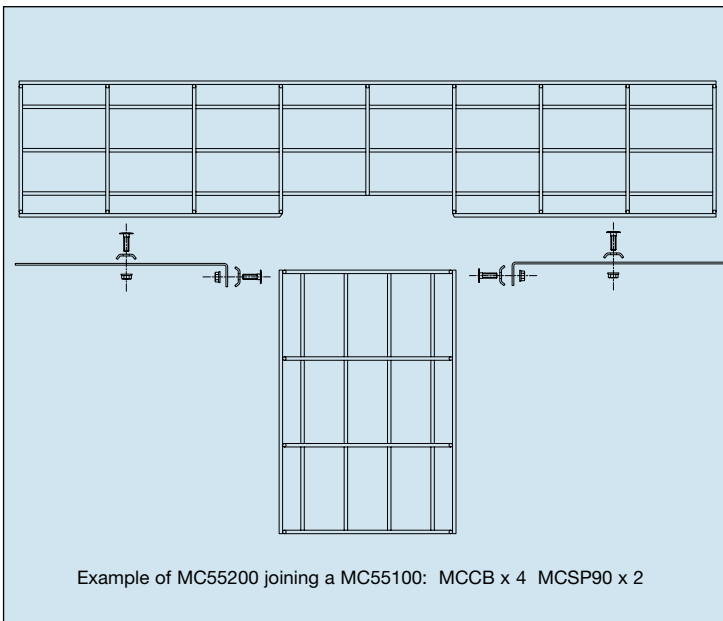
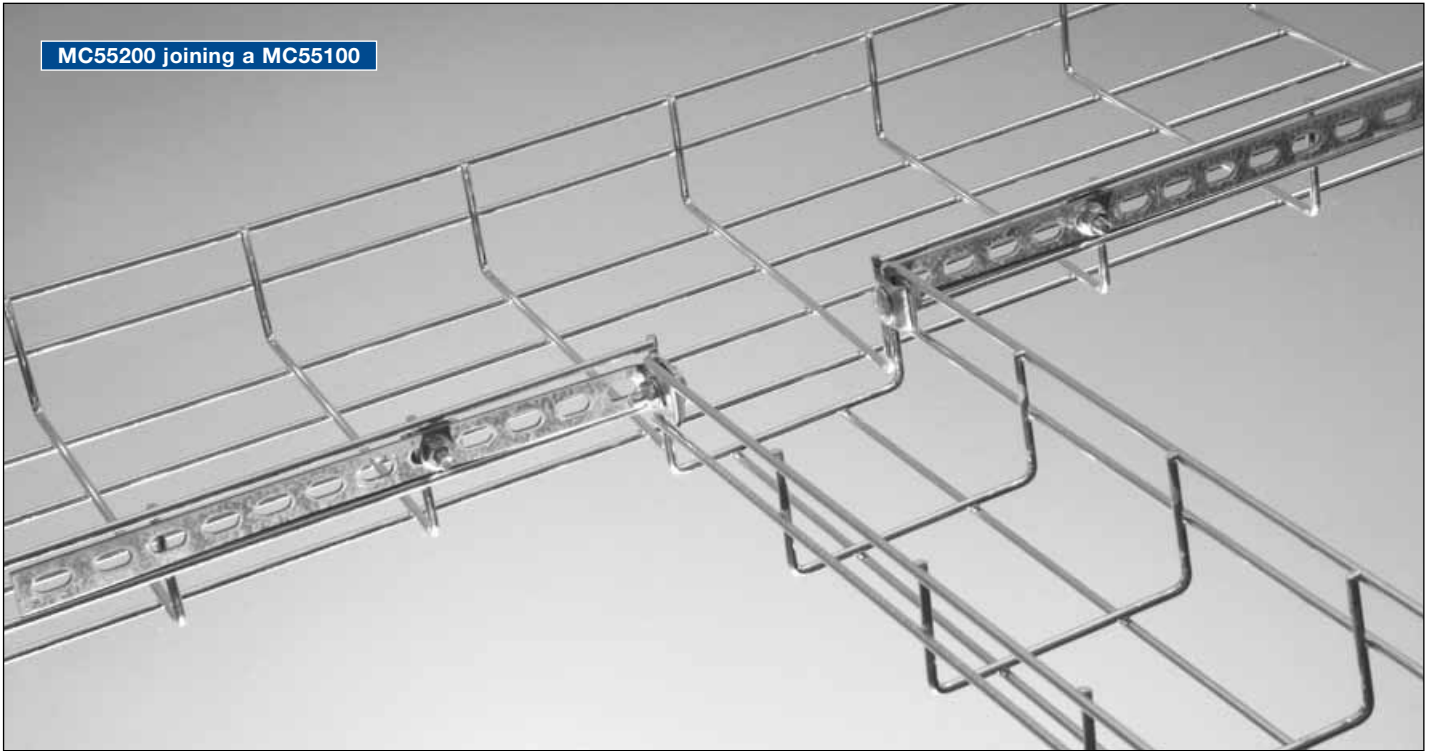
All bends can be easily fabricated on site



STEEL WIRE CABLE TRAY

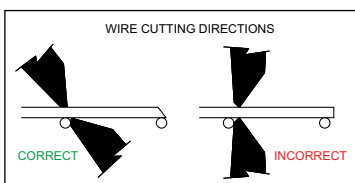
fabrication guide - tee-junction with right angle and crossovers

MC55200 joining a MC55100



Tray Width	Fastening Type	MCCB	MCSP90	Removed Segments
50mm	MCCB MCSP90	x4	x2	1
100mm	MCCB MCSP90	x4	x2	1
150mm	MCCB MCSP90	x4	x2	2
200mm	MCCB MCSP90	x4	x2	2
300mm	MCCB MCSP90	x4	x2	3
400mm 450mm	MCCB MCSP90	x4	x2	4
500mm	MCCB MCSP90	x4	x2	5
600mm	MCCB MCSP90	x4	x2	6

All bends can be easily fabricated on site



Standards

Marco Steel Wire Cable Tray conforms to the following standards:
BSEN 61537:2007, IEC 61537



WALL SUPPORT BRACKET RECOMMENDATIONS

Ref. No.	Dimensions	Fast Fix Wall Bracket	Cantilever Bracket	Wall / Floor Bracket	MCAMP	MCB35
MC3050	30mm x 50mm	MCWFB100 *	MCCB100 *	MCWB50	~	1
MC30100	30mm x 100mm	MCWFB100	MCCB100	MCWB100 / MCCSB100	~	~
MC30150	30mm x 150mm	MCWFB150	MCCB150	MCWB150 / MCCSB150	~	~
MC30200	30mm x 200mm	MCWFB200	MCCB200	MCWB200 / MCCSB200	~	~
MC30300	30mm x 300mm	MCWFB300	MCCB300	MCWB300 / MCCSB300	~	~
MC30400	30mm x 400mm	MCWFB400	MCCB400	MCWB400 / MCCSB400	~	~
MC30450	30mm x 450mm	MCWFB450	~	MCWB450 / MCCSB450	~	~
MC30500	30mm x 500mm	~	~	MCWB500 / MCCSB500	~	~
MC5550	55mm x 50mm	MCWFB100 *	MCCB100 *	MCWB50	1	1
MC55100	55mm x 100mm	MCWFB100	MCCB100	MCWB100 / MCCSB100	~	~
MC55150	55mm x 150mm	MCWFB150	MCCB150	MCWB150 / MCCSB150	~	~
MC55200	55mm x 200mm	MCWFB200	MCCB200	MCWB200 / MCCSB200	~	~
MC55300	55mm x 300mm	MCWFB300	MCCB300	MCWB300 / MCCSB300	~	~
MC55400	55mm x 400mm	MCWFB400	MCCB400	MCWB400 / MCCSB400	~	~
MC55450	55mm x 450mm	MCWFB450	~	MCWB450 / MCCSB450	~	~
MC55500	55mm x 500mm	~	~	MCWB500 / MCCSB500	~	~
MC55600	55mm x 600mm	~	~	MCWB600 / MCCSB600	~	~
MC106100	106mm x 100mm	MCWFB100	MCCB100	MCWB100 / MCCSB100	~	~
MC106150	106mm x 150mm	MCWFB150	MCCB150	MCWB150 / MCCSB150	~	~
MC106200	106mm x 200mm	MCWFB200	MCCB200	MCWB200 / MCCSB200	~	~
MC106300	106mm x 300mm	MCWFB300	MCCB300	MCWB300 / MCCSB300	~	~
MC106400	106mm x 400mm	MCWFB400	MCCB400	MCWB400 / MCCSB400	~	~
MC106450	106mm x 450mm	MCWFB450	~	MCWB450 / MCCSB450	~	~
MC106500	106mm x 500mm	~	~	MCWB500 / MCCSB500	~	~
MC106600	106mm x 600mm	~	~	MCWB600 / MCCSB600	~	~

SUSPENSION BRACKET RECOMMENDATIONS

Ref. No.	Dimensions	Support Channel Standard / Fast Fix	Support Channel				
			MCSB	MCSH	MCSB50	MCSB100	MCSB150
MC3050	30mm x 50mm	MCSC100 *	2	~	1	~	~
MC30100	30mm x 100mm	MCSC100 / MCCSB100	2	1	~	1	~
MC30150	30mm x 150mm	MCSC200 / MCCSB150	2	1**	~	~	1
MC30200	30mm x 200mm	MCSC250 / MCCSB200	2	1	~	~	~
MC30300	30mm x 300mm	MCSC350 / MCCSB300	~	~	~	~	~
MC30400	30mm x 400mm	MCSC450 / MCCSB400	~	~	~	~	~
MC30450	30mm x 450mm	MCSC500 / MCCSB450	~	~	~	~	~
MC30500	30mm x 500mm	MCSC550 / MCCSB500	~	~	~	~	~
MC5550	55mm x 50mm	MCSC100 *	2	~	1	~	~
MC55100	55mm x 100mm	MCSC100 / MCCSB100	2	1	~	1	~
MC55150	55mm x 150mm	MCSC200 / MCCSB150	2	1**	~	~	1
MC55200	55mm x 200mm	MCSC250 / MCCSB200	2	1	~	~	~
MC55300	55mm x 300mm	MCSC350 / MCCSB300	~	~	~	~	~
MC55400	55mm x 400mm	MCSC450 / MCCSB400	~	~	~	~	~
MC55450	55mm x 450mm	MCSC500 / MCCSB450	~	~	~	~	~
MC55500	55mm x 500mm	MCSC550 / MCCSB500	~	~	~	~	~
MC55600	55mm x 600mm	MCSC650 / MCCSB600	~	~	~	~	~
MC106100	106mm x 100mm	MCSC100 / MCCSB100	2	1	~	~	~
MC106150	106mm x 150mm	MCSC200 / MCCSB150	2	1**	~	~	~
MC106200	106mm x 200mm	MCSC250 / MCCSB200	~	~	~	~	~
MC106300	106mm x 300mm	MCSC350 / MCCSB300	~	~	~	~	~
MC106400	106mm x 400mm	MCSC450 / MCCSB400	~	~	~	~	~
MC106450	106mm x 450mm	MCSC500 / MCCSB450	~	~	~	~	~
MC106500	106mm x 500mm	MCSC550 / MCCSB500	~	~	~	~	~
MC106600	106mm x 600mm	MCSC650 / MCCSB600	~	~	~	~	~

COUPLER RECOMMENDATIONS

Ref No.	Dimensions	MCQC Quick Coupler		MCCA Coupler	
		Side	Base	Side	Base
MC3050	30mm x 50mm	2	0	2	0
MC30100	30mm x 100mm	2	0	2	1
MC30150	30mm x 150mm	2	0	2	1
MC30200	30mm x 200mm	2	1	2	1
MC30300	30mm x 300mm	2	1	2	2
MC30400	30mm x 400mm	2	2	2	2
MC30450	30mm x 450mm	2	2	2	2
MC30500	30mm x 500mm	2	2	2	2
MC5550	55mm x 50mm	2	0	2	0
MC55100	55mm x 100mm	2	0	2	1
MC55150	55mm x 150mm	2	1	2	1
MC55200	55mm x 200mm	2	1	2	1
MC55300	55mm x 300mm	2	1	2	2
MC55400	55mm x 400mm	2	2	2	2
MC55450	55mm x 450mm	2	2	2	2
MC55500	55mm x 500mm	2	2	2	2
MC55600	55mm x 600mm	2	3	2	3
MC106100	106mm x 100mm	2	1	2	1
MC106150	106mm x 150mm	2	1	2	1
MC106200	106mm x 200mm	2	1	2	1
MC106300	106mm x 300mm	2	2	2	2
MC106400	106mm x 400mm	2	3	2	3
MC106450	106mm x 450mm	2	3	2	3
MC106500	106mm x 500mm	2	3	2	3
MC106600	106mm x 600mm	2	3	2	3

Suspension & Wall bracket recommendations

These tables are intended to be used as a guide only. It is recommended that the tray should be supported at approximately 1 metre intervals. For large volumes of cable, more support may be necessary.

Suspension brackets can be used effectively only up to a certain weight. For larger Steel Wire Cable Tray, support channels are recommended.

* Due to a central wire running down the length of the tray a MCT35 is needed.

**Due to a central wire running down the length of the tray, central suspension brackets would need to be staggered.

Coupler recommendations

This table is intended to be used as a guide only. For large volumes of cable, more support may be necessary.



	Electro Zinc	Hot Dipped Galvanised	Pre Galvanised	Stainless Steel	Powder Coated
Standards	BSEN 12329:2000	BSEN ISO1461:2009	BSEN 10244-2	BSEN 10088-2 AISI 316L	BSEN 13438
Interior Installation Non-Corrosive	Recommended	Possible	Recommended	Possible	Possible
Interior Installation Corrosive	Not Recommended	Possible	Not Recommended	Recommended	Possible
Exterior Installation Moderately Corrosive	Not Recommended	Recommended	Not Recommended	Possible	Possible
Exterior Installation Severely Corrosive	Not Recommended	Possible	Not Recommended	Recommended	Possible
Food Industries	Not Recommended	Not Recommended	Not Recommended	Recommended	Not Recommended
Data Centres	Possible	Possible	Recommended	Possible	Recommended



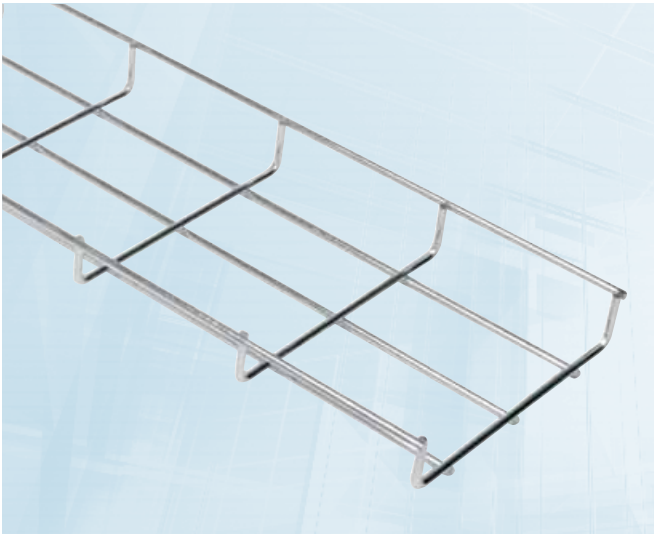
Marco Hot Dipped Galvanised Steel Wire Cable Tray is manufactured primarily to provide an effective protection against corrosion protection, and does not possess the same aesthetic surface as other finishes. Differences in colour and surface finish can occur as a direct result of the galvanising process, which has no detrimental affect to the quality of the anti-corrosion protection.

For instances installations where aesthetics (colour or smoothness of the surface) play an important role in the installation, Marco recommends a Powder Coated or Stainless Steel finish.

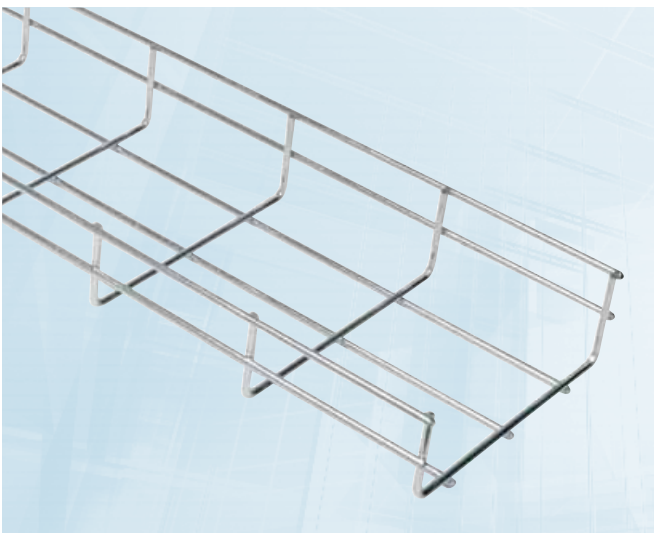
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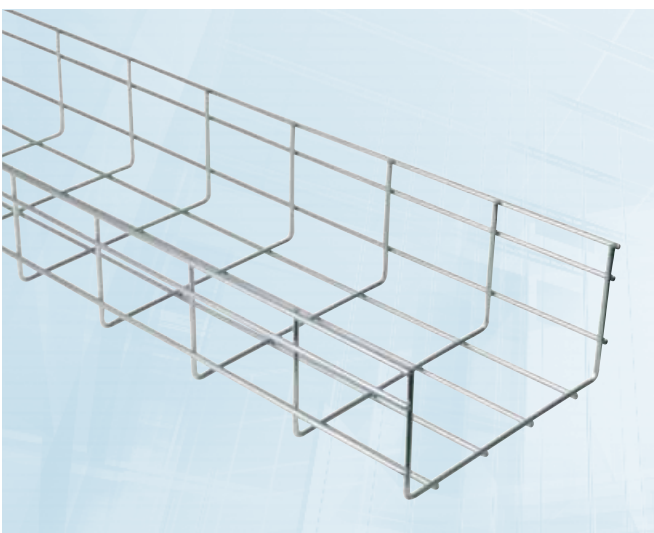
TABLE SHOWING APPROXIMATE CABLE CAPACITIES OF ALL STEEL WIRE CABLE TRAYS USING A 50% FILL RATIO



MC30			Approx cable capacity under NEC 50% Rule		
Cable Tray	Total Fill Area (mm ²)	NEC 50% Rule: Allowable Fill Area (mm ²)	Cat 5e 4-pr UTP (4.9mm dia)	Cat 6 4-pr UTP (6.5mm dia)	Cat 6a 4-pr UTP (8.9mm dia)
MC3050	1400	700	37	21	11
MC30100	2800	1400	74	42	23
MC30150	4200	2100	111	63	34
MC30200	5600	2800	148	84	45
MC30300	8400	4200	223	127	68



MC55			Approx cable capacity under NEC 50% Rule		
Cable Tray	Total Fill Area (mm ²)	NEC 50% Rule: Allowable Fill Area (mm ²)	Cat 5e 4-pr UTP (4.9mm dia)	Cat 6 4-pr UTP (6.5mm dia)	Cat 6a 4-pr UTP (8.9mm dia)
MC5550	2600	1300	69	39	21
MC55100	5200	2600	138	78	42
MC55150	7800	3900	207	118	63
MC55200	10400	5200	276	157	84
MC55300	15600	7800	414	235	125
MC55400	20800	10400	552	313	167
MC55450	23400	11700	620	353	188
MC55500	26000	13000	689	392	209
MC55600	31200	15599.95	827	470	251



MC106			Approx cable capacity under NEC 50% Rule		
Cable Tray	Total Fill Area (mm ²)	NEC 50% Rule: Allowable Fill Area (mm ²)	Cat 5e 4-pr UTP (4.9mm dia)	Cat 6 4-pr UTP (6.5mm dia)	Cat 6a 4-pr UTP (8.9mm dia)
MC106100	10303	5152	273	155	83
MC106150	15452	7726	410	233	124
MC106200	20600	10300	546	310	166
MC106300	30903	15452	819	466	248
MC106400	41200	20600	1092	621	331
MC106450	46348	23174	1229	698	373
MC106500	51503	25752	1366	776	414
MC106600	617800	30900	1639	931	497