

INSTALLATION INSTRUCTIONS FOR SQUARE-TRACK MOTIV-8 CABLE FESTOON SYSTEM

APPLICABLE FOR THE FOLLOWING CABLE FESTOON SYSTEMS:

- STANDARD DUTY ⇒ 25kg carrying capacity
- HEAVY DUTY ⇒ 80kg carrying capacity

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1. RECOMMENDED TOOLS

1.1 TOOLS RECOMMENDED FOR INSTALLATION OF SQUARE-TRACK CABLE FESTOON SYSTEM.

- Tape measure
- Power drill with 7mm, 8mm, 9mm drill bits
- Spanners to suit M8 nut and bolt (standard & medium duty) or M10 nut and bolt (heavy duty).
- Clamps

2. HANDLING INSTRUCTIONS

2.1 UNLOADING AND HANDLING OF SQUARE-TRACK CABLE FESTOON COMPONENTS

- 2.1.1 Prior to installation, check quantities of parts supplied against the delivery docket and/or drawings, and check that no damage has occurred in transit.
- 2.1.2 Please read this installation manual in its entirety prior to commencing installation.

3. INSTALLATION INSTRUCTIONS

3.1 SUPPORT BRACKETS

- 3.1.1 Support Brackets come in 250mm, 500mm, 750mm and 1000mm lengths (Part No. 99247/length) and are mounted perpendicular to the channel runway. On one end there are two holes to accept the M8 mounting stud of the track supports. The other end fixes the support bracket to the top of the beam, or other supporting structure, via the gilder clip.
- 3.1.2 Mount the support brackets at spacings according to the table that follows. Also note that the distance specified may need to be varied in some areas to ensure that the position of the support brackets does not coincide with the track couplers.

RECOMMENDED BRACKET SPACING

Cable Trolley Load as a % of the System's Catalogued Carrying Capacity	100	75	50	30	25	10	5
Recommended Bracket Spacing (mm)	800	900	1000	1500	1750	2000	2500

3.2 TRACK SUPPORTS (HANGERS) & TRACK COUPLERS

- 3.2.1 The track will need to be drilled to accommodate the track supports. The drilling jig (Part No. 99528) can be used for this. Position and clamp the jig onto the track with its centre in alignment with the centre of the mounting bracket. Drill two holes, using the two guide bushes spaced at 58mm centres in the jig.
- 3.2.2 The track must also be drilled to accommodate the end stop and the end clamp.
- 3.2.3 Loosely bolt the sections of channel to the support bracket via the track supports (hangers), joining the ends of each channel length with the track couplers as you progress. The ends of the track are pre-drilled to fit the appropriate track couplers. If the track has to be cut on site and requires re-drilling, use the drilling jig mentioned above. Position and clamp the jig flush with the end of the track. The new holes should be drilled to match the pre-drilled holes, using the bush guide 29mm from the end of the track.
- 3.2.4 The track supports (hangers) are fixed to the support brackets via nuts on the M8 stud at the top of the hanger.
- 3.2.5 Once all couplers are properly tightened, the track supports (hangers) should be locked down.

3.3 TROLLEYS, END STOPS AND END CLAMP

- 3.3.1 When the channel is securely located, an end stop is fitted to the end of the track opposite to the storage or cable feed end and at the opposite end to the end clamp installation. The towing trolley and the cable trolleys should then be installed. Install these from the storage end of the runway. An end stop should then be installed at this end, and an end clamp installed and secured.

3.4 CABLES

- 3.4.1 The cables can now be installed over the saddles of the cable trolleys and the end clamp. Tighten these securely, noting the specified cable top depth and allowance for hookup.

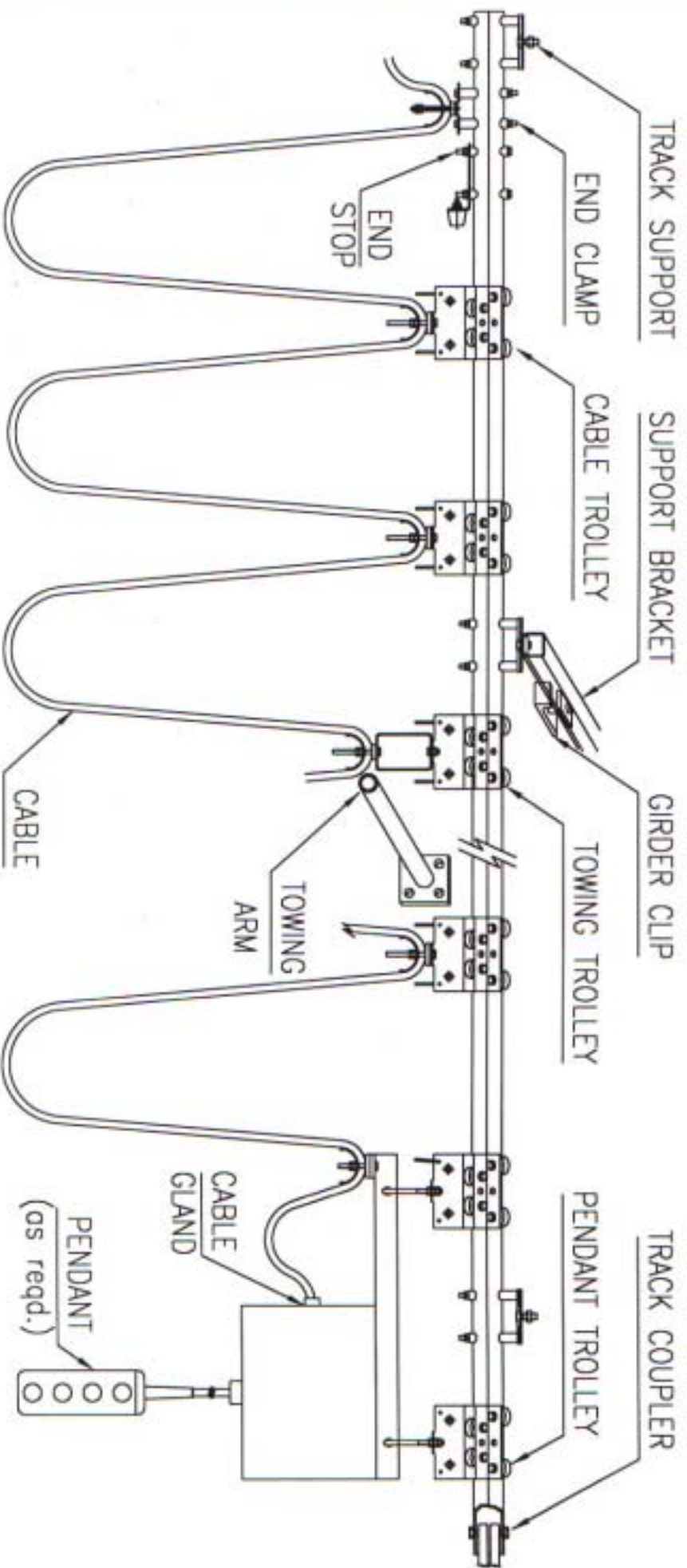
3.5 TOWING ARM

- 3.5.1 In order to tow the flexible cable system, a towing arm needs to be fitted to the hoist/crane track, which in turn is engaged to the towing trolley. An aperture is provided on the towing trolley which allows for any variation or movement between the monorail/crane track and the flexible cable system.

3.6 POWER CONNECTION

- 3.6.1 Prior to application of power, the trolleys should be cycled manually, if possible, to check for proper top depth, freedom of travel and stretchout.
- 3.6.2 The cable connections can now be made to the powered unit and the source.
- 3.6.3 Apply power and cycle system slowly for checkout.

TYPICAL SQUARE TRACK & FITTINGS



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SUBJECT TYPICAL SQUARE-TRACK SYSTEM DRAWING

CLIENT

DRAWN MJ

DATE 31-08-00

TOLERANCES DEC. ANG. ± 1°

± 0.25

SCALE NTS

SYS-SQTO1