



The following excerpt are pages from the [North American Product Technical Guide Volume 3: Modular Support Systems Technical Guide, Edition 1](#) .

Please refer to the publication in its entirety for complete details on this product including load values, approvals/listings, general suitability, finishes, quality, etc.

To consult directly with a team member regarding our modular support system products, contact Hilti's team of technical support specialists between the hours of 7:00am – 6:00pm CST.

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## 3.0 MODULAR SUPPORT SYSTEM

### 3.2.4 MT SPLICE CONNECTORS

#### MT-ES-60

#### Description

Extension splice for channel.

#### Material Specifications

Standard <sup>1</sup>	Grade <sup>1</sup>	F <sub>y</sub> , ksi (MPa)	F <sub>u</sub> , ksi (MPa)
GB/T 700	Q235 B	34.08 (235)	53.66 (370)

1. Mechanical properties of GB/T 700 Grade Q235 B meet or exceed the mechanical properties of ASTM A1011 SS Grade 33.

#### Corrosion Protection

##### Electro-Galvanized (EG)

MT-ES-60

##### Hot-Dipped Galvanized (HDG)

MT-ES-60 OC

#### Ordering Information

Description	Weight Per Piece lbs (kg)	Quantity Piece(s)	Item No.
MT-ES-60	5.45 (2.47)	8	2332415
MT-ES-60 OC	5.45 (2.47)	8	2332416

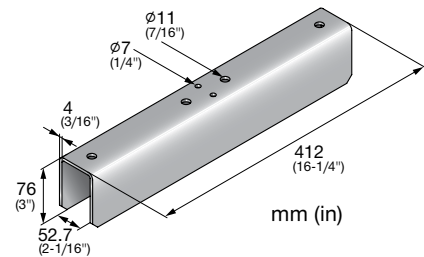
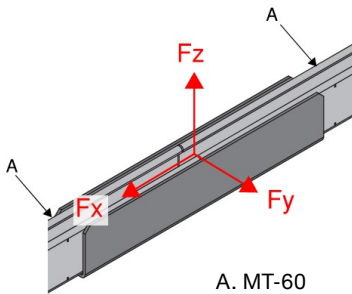


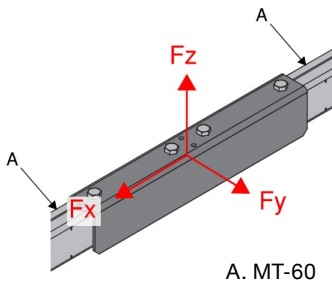
Figure 63 - Splice Extension for MT Channel



A. MT-60

\*Splice connector is attached to MT Channels using 4 x MT-CTAB screws.

Figure 64 - Splice Extension for MT Channel



A. MT-60

Table 183 - Allowable Strength Design (ASD) Load Data<sup>1,2,3</sup>

F <sub>x</sub> lb (kN)	F <sub>y</sub> lb (kN)	F <sub>z</sub> lb (kN)
2,320 (10.33)	200 (0.90)	1,655 (7.37)

1. Minimum safety factor,  $\Omega$ , for tabulated values is 2.6.
2. Multiply tabulated values by 1.5 to obtain minimum Load and Resistance Factor Design (LRFD) values.
3. See Figure 63.

Table 184 - Limit State Design (LSD) Load Data<sup>1,2</sup>



F <sub>x</sub> lb (kN)	F <sub>y</sub> lb (kN)	F <sub>z</sub> lb (kN)
3,230 (14.37)	265 (1.19)	2,300 (10.24)

1. Maximum resistance factor,  $\phi$ , for tabulated values is 0.55.
2. See Figure 63.

Table 185 - Allowable Strength Design (ASD) Load Data<sup>1,2,3</sup>

F <sub>x</sub> lb (kN)	F <sub>y</sub> lb (kN)	F <sub>z</sub> lb (kN)
835 (3.72)	80 (0.37)	1,320 (5.88)

1. Minimum safety factor,  $\Omega$ , for tabulated values is 2.65.
2. Multiply tabulated values by 1.5 to obtain minimum Load and Resistance Factor Design (LRFD) values.
3. See Figure 64.

Table 186 - Limit State Design (LSD) Load Data<sup>1,2</sup>



F <sub>x</sub> lb (kN)	F <sub>y</sub> lb (kN)	F <sub>z</sub> lb (kN)
1,055 (4.70)	95 (0.44)	1,705 (7.59)

1. Maximum resistance factor,  $\phi$ , for tabulated values is 0.5.
2. See Figure 64.