

# routing and raceway

A revolutionary new multi-channel raceway, InfoStream features a unique, rounded profile which offers a sleek appearance and helps absorb shock. Many features, including InfoStream's light weight, make it a favorite with installers and end users. Here is why one customer prefers InfoStream:

"Since InfoStream is lighter, one person can hold up a single piece and install it. This ultimately allows us to cut back on labor and shipping charges."



#### LIGHTGUIDE FIBER OPTIC **PROTECTION SYSTEM**



The Lightguide Fiber Optic Protection System is a fully enclosed system designed to isolate, route and protect fiber optic cable. This system provides a smooth, protective surface and channel to prevent fiber kinking, cutting and associated signal loss. Consisting of connectors and channels in gray or yellow, the Lightguide System is easily adaptable for cable routing in a LAN, central office, data center, telecommunications office or wherever cable is run from the building entrance to its termination point. The Lightquide System is designed to be supported by existing equipment such as bays, cable racks, unistrut, threaded rod, etc., and is mounted and secured with metal hardware kits available from HellermannTyton. The connectors and channels are secured by nuts and bolts or Hellermann-Tyton's rivet fasteners.

#### **Components**

There are more than 40 components in different sizes with various horizontal and vertical transitions. System sizes include 1" x 1", 2" x 2", 2" x 4", 4" x 2", 4" x 4", and 8" x 4". Designed to provide easy re-entry, the Lightguide connectors feature a hook and loop cover attachment, eliminating fiber pinching and the need for additional hardware. When the connector cover is removed, the cable remains in place due to an inside flange providing cable retention. The complete lay-in capability of the connectors and channels eliminates the pulling of fiber and allows ease of access and tracing. The connectors and channels are designed to prevent fiber cables from exceeding the 2" minimum bend radius requirement.

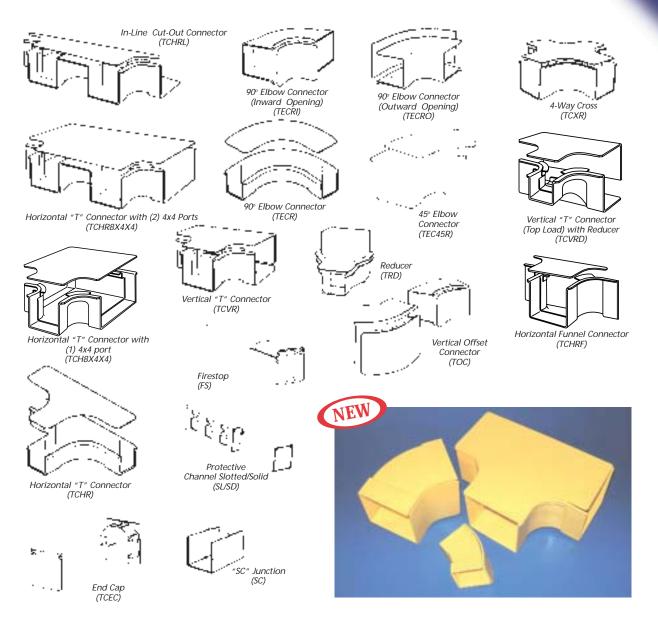
HellermannTyton has simplified the assembly process by offering rivet fasteners, which do not require tools to assemble, and can connect the components to the channel. Unlike other rivets, these interlocking rivet fasteners can be easily removed and re-installed. A 10-32 bolt also can be used for assembly.

Manufactured from a PVC/Acrylic alloy with a flammability rating of UL94V-0, the connectors possess an oxygen index of 37 with a maximum continuous temperature rating of 122° Fahrenheit.

#### **Protective Channel**

The protective channel is available in 6 foot lengths as solid or slotted with snap-on covers. The solid channel provides fiber routing and protection for all straight horizontal runs. The slotted channel is designed for vertical drops from the overhead environment down to the front face of the equipment bay. The slotted fingers can be broken off to create a custom size opening so the fiber and cable can branch out to the equipment. The snap-on covers easily interlock with the channel and feature a non-slip surface.

Both styles of protective channel and cover are manufactured from a rigid, non-flammable polyvinyl chloride. This material is 94V-0 rated with an oxygen index of 40 to 48 per ASTM 2863. (See page 86 for Fiber Optic Cable Tape to identify the routing of fiber optic cable.)



| HELLERMANN<br>TYTON<br>PART NO. | DESCRIPTION   | PKG. QTY.                  |
|---------------------------------|---|----------------------------|
| 1" x 1" System                  |   |                            |
| TECR1x1X                        | 90° Elbow Connector                                     | 1                          |
| TCHR1x1X                        | Horizontal "T" Connector                                | 1                          |
| SD1x1X/TC1                      | 1" x 1" Solid Channel with Cover                        | 120 feet of 6 foot lengths |
| SL1x1X/TC1                      | 1" x 1" Slotted Channel with Cover                      | 120 feet of 6 foot lengths |
| 2" x 2" System                  |   |                            |
| TOC2x2X                         | Vertical Offset Connector (Inward & Outward Set)        | 1                          |
| TCVR2x2X                        | Vertical "T" Connector (Top Load)                       | 1                          |
| TCVRD2x2X                       | Vertical "T" Connector (Top Load) with 2" to 1" reducer | 1                          |
| TCXR2x2X                        | 4-Way Cross   | 1                          |

Replace "X" in the part number with the following letters for desired color: X = G (gray), Y (yellow)

| HELLERMANN<br>TYTON       | DESCRIPTION   | PKG. QTY.                                       |
|---------------------------|---|---|
| PART NO.                  |   |   |
| 2" x 2" System            |   |   |
| TECRO2x2X                 | 90° Elbow Connector (Outward Opening)                           | 1   |
| TECRI2x2X                 | 90° Elbow Connector (Inward Opening)                            | 1   |
| TECR2x2X                  | 90° Elbow Connector   | 1   |
| TEC45R2x2X                | 45° Elbow Connector   | 1   |
| TCHR2x2X                  | Horizontal "T" Connector  | 1   |
| TCEC2x2X                  | End Cap   | 1   |
| FS2x2X                    | Firestop Support  | 1   |
| SC2x2X                    | Straight Connector (Junction)                                   | ·   |
| TRD2x1X<br>SD2x2X/TC2     | 2" to 1" Reducer<br>2" x 2" Solid Channel with Cover            |   |
| SD2x2X/TC2<br>SL2x2X/TC2  | 2" x 2" Solid Channel with Cover                                | 120 feet of 6 foot lengths                      |
| SDWR2x20K2                | Wire Retainer for 2" x 2" Solid Channel, Black                  | 120 feet of 6 foot lengths<br>50 pieces per bag |
| SLWR20C2                  | Wire Retainer for 2" x 2" Slotted Channel, Black                | 100 pieces per bag                              |
| 2" x 4" System            | Wile Retailler for 2 x 2 Slotted Charliner, black               | Too pieces per bag                              |
| TECR2x4X                  | 90° Elbow Connector   | 1   |
| SD2x4X/TC2                | 2" x 4" Solid Channel with Cover                                | 120 feet of 6 foot lengths                      |
| SL2x4X/TC2                | 2" x 4" Slotted Channel with Cover                              | 120 feet of 6 foot lengths                      |
| SLWR20C2                  | Wire Retainer for 2" x 4" Slotted Channel, Black                | 100 pieces per bag                              |
| 4" x 2" System            | whe ketallier for 2 x 4 slotted charliner, black                | Too pieces per bag                              |
| TECR4x2X                  | 90° Elbow Connector   | 1   |
| TCHR4x2X                  | Horizontal "T" Connector  | 1   |
| TCVR4x2X                  | Vertical "T" Connector (Top Load)                               | 1   |
| TCHVRD4x2x2X              | Vertical "T" Connector (Top Load) with Reducer                  | 1   |
| SC4x2X                    | Straight Connector (Junction)                                   | 1   |
| TRD4x2x2X                 | 4" x 2" to 2" x 2" Reducer                                      | 1   |
| SD4x2X/TC4                | 4" x 2" Solid Channel with Cover                                | 120 feet of 6 foot lengths                      |
| SL4x2X/TC4                | 4" x 2" Slotted Channel with Cover                              | 120 feet of 6 foot lengths                      |
| SDWR4x20K2                | Wire Retainer for 4" x 2" Solid Channel, Black                  | 50 pieces per bag                               |
| SLWR40C2                  | Wire Retainer for 4" x 2" Slotted Channel, Black                | 100 pieces per bag                              |
| 4" x 4" System            |   |   |
| TOC4x4X                   | Vertical Offset Connector (Inward & Outward Set)                | 1   |
| TCVR4x4X                  | Vertical "T" Connector (Top Load)                               | 1   |
| TCVRD4x4X                 | Vertical "T" Connector (Top Load) with 4" to 2" Reducer         | 1   |
| TCXR4x4X                  | 4-Way Cross   | 1   |
| TECRO4x4X                 | 90° Elbow Connector (Outward Opening)                           | 1   |
| TECRI4x4X                 | 90° Elbow Connector (Inward Opening)                            | 1   |
| TECR4x4X                  | 90° Elbow Connector   | 1   |
| TEC45R4x4X                | 45° Elbow Connector   | 1   |
| TCHR4x4X                  | Horizontal "T" Connector  | 1   |
| TCHRD4x4X                 | Horizontal "T" Connector with 4" to 2" Reducer                  | 1   |
| TCHRF4x4X                 | Horizontal Funnel Connector                                     | 1   |
| TCEC4x4X                  | End Cap   | 1   |
| FS4x4X                    | Firestop Support  | 1   |
| SC4x4X                    | Straight Connector (Junction)                                   | 1   |
| TRD4x2X                   | 4" x 4" to 2" x 2" Reducer                                      | 1   |
| TRD4x4x2X                 | 4" x 4" to 4" x 2" Reducer                                      | 1   |
| SD4x4X/TC4                | 4" x 4" Solid Channel with Cover                                | 120 feet of 6 foot lengths                      |
| SL4x4X/TC4                | 4" x 4" Slotted Channel with Cover                              | 120 feet of 6 foot lengths                      |
| SDWR4x40P2                | Wire Retainer for 4" x 4" Solid Channel, Black                  | 10 pieces per bag                               |
| SLWR40C2                  | Wire Retainer for 4" x 4" Slotted Channel, Black                | 100 pieces per bag                              |
| 8" x 4" System<br>TOC8x4X | Vortical Offset Connector (Inward & Outward Set)                | 1   |
| TCXR8x4X                  | Vertical Offset Connector (Inward & Outward Set)<br>4-Way Cross | 1   |
| TECRO8x4X                 | 90° Elbow Connector (Outward Opening)                           | 1   |
| TECR08X4X<br>TECR8x4X     | 90° Elbow Connector   | 1   |
| TCHR8x4X                  | Horizontal "T" Connector  | 1   |
| TCH88x4x4X                | Horizontal "T" Connector with one 4" x 4" port                  | 1   |
| TCHR8x4x4X                | Horizontal "T" Connector with two 4" x 4" ports                 | 1   |
| TCHRL8x4x4X               | In-Line Cut-Out Connector with two 4" x 4" ports                | 1   |
| TCEC8x4X                  | End Cap   | 1   |
| SC8x4X                    | Straight Connector (Junction)                                   | 1   |
| TRD8x4x4X                 | 8" x 4" to 4" x 4" Reducer                                      | 1   |
| SD8x4X/TC8                | 8" x 4" Solid Channel with Cover                                | 120 feet of 6 foot lengths                      |
|                           |   |   |
|                           |   | 1   |

Replace "X" in the part number with the following letters for desired color: X = G (gray), Y (yellow)

## Routing and raceway products

#### Lightguide Fiber Optic Protection System – Fill Capacity Chart

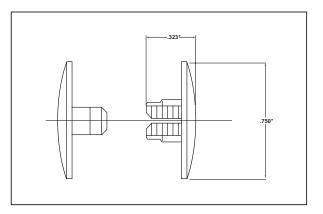
|               | CHANNEL SIZE       |           | 1X1 2X2     |     | 2X4 |     | 4X2 |     | 4X4 |     | 8X4 |       | 12X4 |       |      |       |      |
|---------------|--------------------|-----------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-------|------|-------|------|-------|------|
|               | СН                 | ANNEL ARE | A (SQ. IN.) | 0.7 | 73  | 3.  | 48  | 6.  | 87  | 7.3 | 32  | 14.66 |      | 30.01 |      | 45.36 |      |
| WIRE TYPE     | WIRE SIZE          | 0.D. OI   | F WIRE      | 40% | 60% | 40% | 60% | 40% | 60% | 40% | 60% | 40%   | 60%  | 40%   | 60%  | 40%   | 60%  |
|               | 2 Pr.              | 0.1       | 40          | 18  | 28  | 90  | 135 | 178 | 267 | 190 | 285 | 380   | 571  | 779   | 1169 | 1178  | 1767 |
| UNSHIELDED    | 3 Pr.              | 0.1       | 50          | 16  | 24  | 78  | 118 | 155 | 233 | 165 | 248 | 331   | 497  | 679   | 1018 | 1026  | 1540 |
| TWISTED PAIR, | 4 Pr., Category 5e | 0.2       | 20          | 7   | 11  | 36  | 54  | 72  | 108 | 77  | 115 | 154   | 231  | 315   | 473  | 477   | 715  |
| 24 AWG        | 4 Pr., Category 6  | 0.2       | 40          | 6   | 9   | 30  | 45  | 60  | 91  | 64  | 97  | 129   | 194  | 265   | 398  | 401   | 601  |
|               | 25 Pr.             | 0.5       | 10          | 1   | 2   | 6   | 10  | 13  | 20  | 14  | 21  | 28    | 43   | 58    | 88   | 88    | 133  |
| TWISTED PAIR, | 4 Pr., 24 AWG      | 0.2       | 50          | 5   | 8   | 28  | 42  | 56  | 84  | 59  | 89  | 119   | 179  | 244   | 366  | 369   | 554  |
| SHIELDED      | 25 Pr.             | 0.5       | 10          | 1   | 2   | 6   | 10  | 13  | 20  | 14  | 21  | 28    | 43   | 58    | 88   | 88    | 133  |
| FIBER OPTIC   | 50/125 or          | (2.0)     | 0.079       | 60  | 90  | 287 | 431 | 568 | 852 | 604 | 907 | 1211  | 1817 | 2480  | 3720 | 3748  | 5623 |
| CABLE         | 62.5/125 micron    | (3.0)     | 0.118       | 26  | 40  | 127 | 191 | 251 | 377 | 267 | 401 | 536   | 804  | 1097  | 1646 | 1659  | 2488 |

Formula used to calculate communications wire fill capacity. Numbers of wires = duct /  $\{1/4 \times 3.14 \times (\text{wire o.d.})^2\} \times 0.4$  or 0.6. Per ANSI/TIA/EIA-569-A-1, the maximum pathway fill shall be 40 percent for planning perimeter pathways. A maximum of 60 percent pathway fill is allowed to accommodate unplanned additions after initial installation.

#### **Rivets**

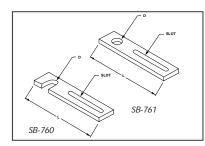
The plastic ratchet rivet (TR1) provides a secure connection of the Lightguide component to the Lightguide protective channel. Each component is equipped with predrilled holes allowing easy insertion of the plastic rivet.

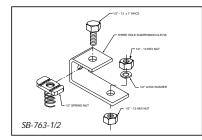
| Hellermann<br>Tyton<br>Part No. | DESCRIPTION  | COLOR | PKG.<br>QTY                  |
|---------------------------------|--|-------|------------------------------|
| TR1                             | Plastic Ratchet Rivet<br>to Connect Component<br>and Channel | Black | 100 sets/kit<br>(200 pieces) |

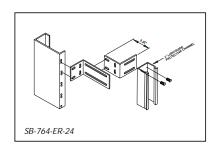


#### MOUNTING HARDWARE KITS

Various configurations of brackets are available for mounting and securing the Lightguide system to existing equipment. Kits are available for mounting onto threaded rod, strut, channel, cable runway, as well as equipment racks and computer floor posts. All mounting brackets are steel with a telco gray finish. Below are just some of the available kits. Contact HellermannTyton or refer to the Lightguide Design and Installation Manual for more information.

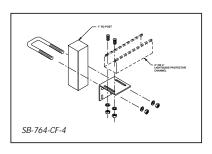


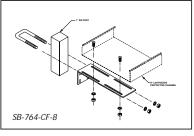


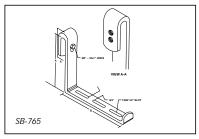


#### **Mounting Hardware Kits**

| HELLERMANNTYTON<br>PART NO.DESCRIPTIONSB-760-1/2X4Threaded Rod / Lightguide Channel Support (Slotted)SB-760-1/2X6Threaded Rod / Lightguide Channel Support (Slotted)SB-760-1/2X10Threaded Rod / Lightguide Channel Support (Slotted)SB-760-5/8X4Threaded Rod / Lightguide Channel Support (Slotted)SB-760-5/8X6Threaded Rod / Lightguide Channel Support (Slotted)SB-760-5/8X10Threaded Rod / Lightguide Channel Support (Slotted)SB-760-5/8X10Threaded Rod / Lightguide Channel Support (Slotted)SB-761-1/2X4Threaded Rod / Lightguide Channel Support (Slotted)SB-761-1/2X4Threaded Rod / Lightguide Channel Support (Slotted)SB-761-5/8X10Threaded Rod / Lightguide Channel SupportSB-761-5/8X4Threaded Rod / Lightguide Channel SupportSB-761-5/8X4Threaded Rod / Lightguide Channel SupportSB-761-5/8X4Threaded Rod / Lightguide Channel SupportSB-761-5/8X6Threaded Rod / Lightguide Channel SupportSB-762-6Strut Channel / Lightguide Channel SupportSB-762-6Strut Channel / Lightguide Channel SupportSB-762-10Strut Channel / Lightguide Channel SupportSB-764-ER-2Equipment Rack / Lightguide Channel SupportSB-764-ER-4Equipment Rack / Lightguide Channel SupportSB-764-ER-4Equipment Rack / Lightguide Channel SupportSB-764-ER-4Computer Floor Post / Lightguide Channel SupportSB-764-FR-4Computer Floor Post / Lightguide Channel SupportSB-765-41/2X5Cable Runway / Lightguide Channel SupportSB-765-9X5Cab  |               |   |
|---|---------------|---|
| SB-760-1/2X4Threaded Rod / Lightguide Channel Support (Slotted)SB-760-1/2X6Threaded Rod / Lightguide Channel Support (Slotted)SB-760-5/8X4Threaded Rod / Lightguide Channel Support (Slotted)SB-760-5/8X4Threaded Rod / Lightguide Channel Support (Slotted)SB-760-5/8X6Threaded Rod / Lightguide Channel Support (Slotted)SB-760-5/8X6Threaded Rod / Lightguide Channel Support (Slotted)SB-760-5/8X10Threaded Rod / Lightguide Channel Support (Slotted)SB-761-1/2X4Threaded Rod / Lightguide Channel SupportSB-761-1/2X4Threaded Rod / Lightguide Channel SupportSB-761-5/8X4Threaded Rod / Lightguide Channel SupportSB-761-5/8X4Threaded Rod / Lightguide Channel SupportSB-762-4Strut Channel / Lightguide Channel SupportSB-762-6Strut Channel / Lightguide Channel SupportSB-763-1/2Threaded Channel / Lightguide Channel SupportSB-764-ER-2Equipment Rack / Lightguide Channel SupportSB-764-ER-2Equipment Rack / Lightguide Channel SupportSB-764-ER-24Equipment Rack / Lightguide Channel SupportSB-764-ER-34Cable Runw   |               | DESCRIPTION                                       |
| SB-760-1/2X6Threaded Rod / Lightguide Channel Support (Slotted)SB-760-1/2X10Threaded Rod / Lightguide Channel Support (Slotted)SB-760-5/8X4Threaded Rod / Lightguide Channel Support (Slotted)SB-760-5/8X6Threaded Rod / Lightguide Channel Support (Slotted)SB-760-5/8X10Threaded Rod / Lightguide Channel Support (Slotted)SB-760-5/8X10Threaded Rod / Lightguide Channel Support (Slotted)SB-761-1/2X4Threaded Rod / Lightguide Channel SupportSB-761-1/2X6Threaded Rod / Lightguide Channel SupportSB-761-5/8X4Threaded Rod / Lightguide Channel SupportSB-761-5/8X4Threaded Rod / Lightguide Channel SupportSB-761-5/8X4Threaded Rod / Lightguide Channel SupportSB-761-5/8X6Threaded Rod / Lightguide Channel SupportSB-762-4Strut Channel / Lightguide Channel SupportSB-762-6Strut Channel / Lightguide Channel SupportSB-763-1/2Threaded Channel / SupportSB-764-ER-2Equipment Rack / Lightguide Channel SupportSB-764-ER-2Equipment Rack / Lightguide Channel SupportSB-764-ER-4Equipment Rack / Lightguide Channel SupportSB-764-FR-4Computer Floor Post / Lightguide Channel SupportSB-764-CF-8Computer Floor Post / Lightguide Channel SupportSB-765-41/2X5Cable Runway / Lightguide Channel SupportSB-765-9X5Cable Runway / Lightguide Channel S   |               |   |
| SB-760-1/2X10Threaded Rod / Lightguide Channel Support (Slotted)SB-760-5/8X4Threaded Rod / Lightguide Channel Support (Slotted)SB-760-5/8X6Threaded Rod / Lightguide Channel Support (Slotted)SB-760-5/8X10Threaded Rod / Lightguide Channel Support (Slotted)SB-760-5/8X10Threaded Rod / Lightguide Channel Support (Slotted)SB-761-1/2X4Threaded Rod / Lightguide Channel SupportSB-761-1/2X6Threaded Rod / Lightguide Channel SupportSB-761-5/8X4Threaded Rod / Lightguide Channel SupportSB-761-5/8X4Threaded Rod / Lightguide Channel SupportSB-761-5/8X6Threaded Rod / Lightguide Channel SupportSB-761-5/8X6Threaded Rod / Lightguide Channel SupportSB-762-4Strut Channel / Lightguide Channel SupportSB-762-6Strut Channel / Lightguide Channel SupportSB-763-1/2Threaded Channel / SupportSB-764-ER-2Equipment Rack / Lightguide Channel SupportSB-764-ER-2Equipment Rack / Lightguide Channel SupportSB-764-ER-4Equipment Rack / Lightguide Channel SupportSB-764-CF-8Computer Floor Post / Lightguide Channel SupportSB-765-11/2X5Cable Runway / Lightguide Channel SupportSB-764-CF-8Computer Floor Post / Lightguide Channel SupportSB-764-ER-24Equipment Rack / Lightguide Channel SupportSB-764-ER-4Equipment Rack / Lightguide Channel Suppor   |               |   |
| SB-760-5/8X4Threaded Rod / Lightguide Channel Support (Slotted)SB-760-5/8X6Threaded Rod / Lightguide Channel Support (Slotted)SB-760-5/8X10Threaded Rod / Lightguide Channel Support (Slotted)SB-760-5/8X10Threaded Rod / Lightguide Channel Support (Slotted)SB-761-1/2X4Threaded Rod / Lightguide Channel SupportSB-761-1/2X4Threaded Rod / Lightguide Channel SupportSB-761-1/2X4Threaded Rod / Lightguide Channel SupportSB-761-1/2X10Threaded Rod / Lightguide Channel SupportSB-761-5/8X4Threaded Rod / Lightguide Channel SupportSB-761-5/8X4Threaded Rod / Lightguide Channel SupportSB-761-5/8X4Threaded Rod / Lightguide Channel SupportSB-761-5/8X6Threaded Rod / Lightguide Channel SupportSB-762-6Strut Channel / Lightguide Channel SupportSB-762-7Strut Channel / Lightguide Channel SupportSB-763-1/2Threaded Channel / Lightguide Channel SupportSB-764-ER-2Equipment Rack / Lightguide Channel SupportSB-764-ER-2Equipment Rack / Lightguide Channel SupportSB-764-ER-4Equipment Rack / Lightguide Channel SupportSB-764-ER-4Computer Floor Post / Lightguide Channel SupportSB-764-CF-8Computer Floor Post / Lightguide Channel SupportSB-765-41/2X5Cable Runway / Lightguide Channel SupportSB-765-9X5Cable Runway / Lightguide Channel Support   | SB-760-1/2X6  |   |
| SB-760-5/8X6Threaded Rod / Lightguide Channel Support (Slotted)SB-760-5/8X10Threaded Rod / Lightguide Channel Support (Slotted)SB-761-5/8X10Threaded Rod / Lightguide Channel SupportSB-761-1/2X4Threaded Rod / Lightguide Channel SupportSB-761-1/2X6Threaded Rod / Lightguide Channel SupportSB-761-1/2X6Threaded Rod / Lightguide Channel SupportSB-761-5/8X4Threaded Rod / Lightguide Channel SupportSB-761-5/8X4Threaded Rod / Lightguide Channel SupportSB-761-5/8X4Threaded Rod / Lightguide Channel SupportSB-761-5/8X10Threaded Rod / Lightguide Channel SupportSB-762-4Strut Channel / Lightguide Channel SupportSB-762-6Strut Channel / Lightguide Channel SupportSB-762-10Strut Channel / Lightguide Channel SupportSB-763-1/2Threaded Channel / SupportSB-764-ER-2Equipment Rack / Lightguide Channel SupportSB-764-ER-2Equipment Rack / Lightguide Channel SupportSB-764-ER-24Equipment Rack / Lightguide Channel SupportSB-764-ER-24Equipment Rack / Lightguide Channel SupportSB-764-ER-24Equipment Rack / Lightguide Channel SupportSB-764-ER-24Computer Floor Post / Lightguide Channel SupportSB-764-ER-25Cable Runway / Lightguide Channel SupportSB-764-CF-8Computer Floor Post / Lightguide Channel SupportSB-765-41/2X5Cable Runway / Lightguide Channel SupportSB-765-9X5Cable Runway / Lightguide Channel SupportSB-765-9X5Cable Runway / Lightguide Channel SupportSB-765-9X7 <td>SB-760-1/2X10</td> <td>Threaded Rod/Lightguide Channel Support (Slotted)</td> | SB-760-1/2X10 | Threaded Rod/Lightguide Channel Support (Slotted) |
| SB-760-5/8X10Threaded Rod / Lightguide Channel Support (Slotted)SB-761-1/2X4Threaded Rod / Lightguide Channel SupportSB-761-1/2X6Threaded Rod / Lightguide Channel SupportSB-761-1/2X10Threaded Rod / Lightguide Channel SupportSB-761-5/8X4Threaded Rod / Lightguide Channel SupportSB-761-5/8X6Threaded Rod / Lightguide Channel SupportSB-762-4Strut Channel / Lightguide Channel SupportSB-762-6Strut Channel / Lightguide Channel SupportSB-762-10Strut Channel / Lightguide Channel SupportSB-763-1/2Threaded Channel / SupportSB-764-ER-2Equipment Rack / Lightguide Channel SupportSB-764-ER-2Equipment Rack / Lightguide Channel SupportSB-764-ER-4Equipment Rack / Lightguide Channel SupportSB-764-ER-4Computer Floor Post / Lightguide Channel SupportSB-764-CF-8Computer Floor Post / Lightguide Channel SupportSB-765-41/2X5Cable Runway / Lightguide Channel SupportSB-765-41/2X5Cable Runway / Lightguide Channel SupportSB-765-9X5Cable Runway / Lightguide Channel SupportSB-765-9X7Cable Runway / Lightguide Channel Support  | SB-760-5/8X4  | Threaded Rod/Lightguide Channel Support (Slotted) |
| SB-761-1/2X4Threaded Rod / Lightguide Channel SupportSB-761-1/2X6Threaded Rod / Lightguide Channel SupportSB-761-1/2X10Threaded Rod / Lightguide Channel SupportSB-761-5/8X4Threaded Rod / Lightguide Channel SupportSB-761-5/8X4Threaded Rod / Lightguide Channel SupportSB-761-5/8X6Threaded Rod / Lightguide Channel SupportSB-761-5/8X10Threaded Rod / Lightguide Channel SupportSB-762-4Strut Channel / Lightguide Channel SupportSB-762-6Strut Channel / Lightguide Channel SupportSB-762-10Strut Channel / Lightguide Channel SupportSB-763-1/2Threaded Channel / Strut Channel SupportSB-764-ER-2Equipment Rack / Lightguide Channel SupportSB-764-ER-2Equipment Rack / Lightguide Channel SupportSB-764-ER-4Equipment Rack / Lightguide Channel SupportSB-764-CF-8Computer Floor Post / Lightguide Channel SupportSB-765-41/2X5Cable Runway / Lightguide Channel SupportSB-765-9X5Cable Runway / Lightguide Channel SupportSB-765-9X7Cable Runway / Lightguide Channel Support   | SB-760-5/8X6  | Threaded Rod/Lightguide Channel Support (Slotted) |
| SB-761-1/2X6Threaded Rod / Lightguide Channel SupportSB-761-1/2X10Threaded Rod / Lightguide Channel SupportSB-761-5/8X4Threaded Rod / Lightguide Channel SupportSB-761-5/8X6Threaded Rod / Lightguide Channel SupportSB-761-5/8X10Threaded Rod / Lightguide Channel SupportSB-761-5/8X10Threaded Rod / Lightguide Channel SupportSB-762-4Strut Channel / Lightguide Channel SupportSB-762-6Strut Channel / Lightguide Channel SupportSB-762-10Strut Channel / Lightguide Channel SupportSB-763-1/2Threaded Channel / Strut Channel SupportSB-764-ER-2Equipment Rack / Lightguide Channel SupportSB-764-ER-2Equipment Rack / Lightguide Channel SupportSB-764-ER-4Equipment Rack / Lightguide Channel SupportSB-764-CF-8Computer Floor Post / Lightguide Channel SupportSB-765-41/2X5Cable Runway / Lightguide Channel SupportSB-765-9X5Cable Runway / Lightguide Channel SupportSB-765-9X7Cable Runway / Lightguide Channel Support   | SB-760-5/8X10 | Threaded Rod/Lightguide Channel Support (Slotted) |
| SB-761-1/2X10Threaded Rod / Lightguide Channel SupportSB-761-5/8X4Threaded Rod / Lightguide Channel SupportSB-761-5/8X6Threaded Rod / Lightguide Channel SupportSB-761-5/8X10Threaded Rod / Lightguide Channel SupportSB-761-5/8X10Threaded Rod / Lightguide Channel SupportSB-762-4Strut Channel / Lightguide Channel SupportSB-762-6Strut Channel / Lightguide Channel SupportSB-762-10Strut Channel / Lightguide Channel SupportSB-763-1/2Threaded Channel / Strut Channel SupportSB-764-ER-2Equipment Rack / Lightguide Channel SupportSB-764-ER-2Equipment Rack / Lightguide Channel SupportSB-764-ER-4Equipment Rack / Lightguide Channel SupportSB-764-CF-8Computer Floor Post / Lightguide Channel SupportSB-765-41/2X5Cable Runway / Lightguide Channel SupportSB-765-41/2X9Cable Runway / Lightguide Channel SupportSB-765-9X5Cable Runway / Lightguide Channel SupportSB-765-9X7Cable Runway / Lightguide Channel Support  | SB-761-1/2X4  | Threaded Rod/Lightguide Channel Support           |
| SB-761-5/8X4Threaded Rod / Lightguide Channel SupportSB-761-5/8X6Threaded Rod / Lightguide Channel SupportSB-761-5/8X10Threaded Rod / Lightguide Channel SupportSB-762-4Strut Channel / Lightguide Channel SupportSB-762-6Strut Channel / Lightguide Channel SupportSB-762-10Strut Channel / Lightguide Channel SupportSB-764-ER-2Equipment Rack / Lightguide Channel SupportSB-764-ER-2Equipment Rack / Lightguide Channel SupportSB-764-ER-4Equipment Rack / Lightguide Channel SupportSB-764-CF-8Computer Floor Post / Lightguide Channel SupportSB-765-41/2X5Cable Runway / Lightguide Channel SupportSB-765-9X5Cable Runway / Lightguide Channel SupportSB-765-9X7Cable Runway / Lightguide Channel Support  | SB-761-1/2X6  | Threaded Rod/Lightguide Channel Support           |
| SB-761-5/8X6Threaded Rod / Lightguide Channel SupportSB-761-5/8X10Threaded Rod / Lightguide Channel SupportSB-762-4Strut Channel / Lightguide Channel SupportSB-762-6Strut Channel / Lightguide Channel SupportSB-762-10Strut Channel / Lightguide Channel SupportSB-764-ER-2Equipment Rack / Lightguide Channel SupportSB-764-ER-2Equipment Rack / Lightguide Channel SupportSB-764-ER-4Equipment Rack / Lightguide Channel SupportSB-764-CF-8Computer Floor Post / Lightguide Channel SupportSB-765-41/2X5Cable Runway / Lightguide Channel SupportSB-765-9X5Cable Runway / Lightguide Channel SupportSB-765-9X7Cable Runway / Lightguide Channel Support   | SB-761-1/2X10 | Threaded Rod/Lightguide Channel Support           |
| SB-761-5/8X10Threaded Rod / Lightguide Channel SupportSB-762-4Strut Channel / Lightguide Channel SupportSB-762-6Strut Channel / Lightguide Channel SupportSB-762-10Strut Channel / Lightguide Channel SupportSB-763-1/2Threaded Channel / Strut Channel SupportSB-764-ER-2Equipment Rack / Lightguide Channel SupportSB-764-ER-4Equipment Rack / Lightguide Channel SupportSB-764-ER-4Computer Floor Post / Lightguide Channel SupportSB-764-CF-8Computer Floor Post / Lightguide Channel SupportSB-765-41/2X5Cable Runway / Lightguide Channel SupportSB-765-41/2X9Cable Runway / Lightguide Channel SupportSB-765-9X5Cable Runway / Lightguide Channel SupportSB-765-9X7Cable Runway / Lightguide Channel Support   | SB-761-5/8X4  | Threaded Rod/Lightguide Channel Support           |
| SB-762-4Strut Channel / Lightguide Channel SupportSB-762-6Strut Channel / Lightguide Channel SupportSB-762-10Strut Channel / Lightguide Channel SupportSB-763-1/2Threaded Channel / Strut Channel SupportSB-764-ER-2Equipment Rack / Lightguide Channel SupportSB-764-ER-2Equipment Rack / Lightguide Channel SupportSB-764-ER-4Equipment Rack / Lightguide Channel SupportSB-764-ER-4Computer Floor Post / Lightguide Channel SupportSB-764-CF-8Computer Floor Post / Lightguide Channel SupportSB-765-41/2X5Cable Runway / Lightguide Channel SupportSB-765-41/2X9Cable Runway / Lightguide Channel SupportSB-765-9X5Cable Runway / Lightguide Channel SupportSB-765-9X7Cable Runway / Lightguide Channel Support   | SB-761-5/8X6  | Threaded Rod/Lightguide Channel Support           |
| SB-762-6Strut Channel / Lightguide Channel SupportSB-762-10Strut Channel / Lightguide Channel SupportSB-763-1/2Threaded Channel / Strut Channel SupportSB-764-ER-2Equipment Rack / Lightguide Channel SupportSB-764-ER-4Equipment Rack / Lightguide Channel SupportSB-764-ER-4Equipment Rack / Lightguide Channel SupportSB-764-ER-44Equipment Rack / Lightguide Channel SupportSB-764-ER-44Equipment Rack / Lightguide Channel SupportSB-764-ER-44Equipment Rack / Lightguide Channel SupportSB-764-CF-4Computer Floor Post / Lightguide Channel SupportSB-765-41/2X5Cable Runway / Lightguide Channel SupportSB-765-41/2X9Cable Runway / Lightguide Channel SupportSB-765-9X5Cable Runway / Lightguide Channel SupportSB-765-9X7Cable Runway / Lightguide Channel Support   | SB-761-5/8X10 | Threaded Rod/Lightguide Channel Support           |
| SB-762-10Strut Channel / Lightguide Channel SupportSB-763-1/2Threaded Channel / Strut Channel SupportSB-764-ER-2Equipment Rack / Lightguide Channel SupportSB-764-ER-4Equipment Rack / Lightguide Channel SupportSB-764-ER-4Equipment Rack / Lightguide Channel SupportSB-764-ER-44Equipment Rack / Lightguide Channel SupportSB-764-ER-44Equipment Rack / Lightguide Channel SupportSB-764-CF-4Computer Floor Post / Lightguide Channel SupportSB-765-41/2X5Cable Runway / Lightguide Channel SupportSB-765-9X5Cable Runway / Lightguide Channel SupportSB-765-9X7Cable Runway / Lightguide Channel Support  | SB-762-4      | Strut Channel/Lightguide Channel Support          |
| SB-763-1/2Threaded Channel/Strut Channel SupportSB-764-ER-2Equipment Rack/Lightguide Channel SupportSB-764-ER-4Equipment Rack/Lightguide Channel SupportSB-764-ER-24Equipment Rack/Lightguide Channel SupportSB-764-ER-24Equipment Rack/Lightguide Channel SupportSB-764-ER-44Equipment Rack/Lightguide Channel SupportSB-764-ER-44Equipment Rack/Lightguide Channel SupportSB-764-CF-4Computer Floor Post/Lightguide Channel SupportSB-765-41/2X5Cable Runway/Lightguide Channel SupportSB-765-9X5Cable Runway/Lightguide Channel SupportSB-765-9X7Cable Runway/Lightguide Channel Support   | SB-762-6      | Strut Channel/Lightguide Channel Support          |
| SB-764-ER-2Equipment Rack/Lightguide Channel SupportSB-764-ER-4Equipment Rack/Lightguide Channel SupportSB-764-ER-24Equipment Rack/Lightguide Channel SupportSB-764-ER-24Equipment Rack/Lightguide Channel SupportSB-764-ER-44Equipment Rack/Lightguide Channel SupportSB-764-CF-4Computer Floor Post/Lightguide Channel SupportSB-764-CF-8Computer Floor Post/Lightguide Channel SupportSB-765-41/2X5Cable Runway/Lightguide Channel SupportSB-765-9X5Cable Runway/Lightguide Channel SupportSB-765-9X5Cable Runway/Lightguide Channel SupportSB-765-9X7Cable Runway/Lightguide Channel Support  | SB-762-10     | Strut Channel/Lightguide Channel Support          |
| SB-764-ER-4Equipment Rack/Lightguide Channel SupportSB-764-ER-24Equipment Rack/Lightguide Channel SupportSB-764-ER-44Equipment Rack/Lightguide Channel SupportSB-764-CF-4Computer Floor Post/Lightguide Channel SupportSB-764-CF-8Computer Floor Post/Lightguide Channel SupportSB-765-41/2X5Cable Runway/Lightguide Channel SupportSB-765-9X5Cable Runway/Lightguide Channel SupportSB-765-9X5Cable Runway/Lightguide Channel SupportSB-765-9X7Cable Runway/Lightguide Channel Support   | SB-763-1/2    | Threaded Channel/Strut Channel Support            |
| SB-764-ER-24Equipment Rack/Lightguide Channel SupportSB-764-ER-44Equipment Rack/Lightguide Channel SupportSB-764-CF-4Computer Floor Post/Lightguide Channel SupportSB-764-CF-8Computer Floor Post/Lightguide Channel SupportSB-765-41/2X5Cable Runway/Lightguide Channel SupportSB-765-41/2X9Cable Runway/Lightguide Channel SupportSB-765-9X5Cable Runway/Lightguide Channel SupportSB-765-9X5Cable Runway/Lightguide Channel SupportSB-765-9X7Cable Runway/Lightguide Channel Support   | SB-764-ER-2   | Equipment Rack/Lightguide Channel Support         |
| SB-764-ER-44Equipment Rack/Lightguide Channel SupportSB-764-CF-4Computer Floor Post/Lightguide Channel SupportSB-764-CF-8Computer Floor Post/Lightguide Channel SupportSB-765-41/2X5Cable Runway/Lightguide Channel SupportSB-765-41/2X9Cable Runway/Lightguide Channel SupportSB-765-9X5Cable Runway/Lightguide Channel SupportSB-765-9X5Cable Runway/Lightguide Channel SupportSB-765-9X7Cable Runway/Lightguide Channel Support  | SB-764-ER-4   | Equipment Rack/Lightguide Channel Support         |
| SB-764-CF-4Computer Floor Post / Lightguide Channel SupportSB-764-CF-8Computer Floor Post / Lightguide Channel SupportSB-765-41/2X5Cable Runway/Lightguide Channel SupportSB-765-41/2X9Cable Runway/Lightguide Channel SupportSB-765-9X5Cable Runway/Lightguide Channel SupportSB-765-9X5Cable Runway/Lightguide Channel SupportSB-765-9X7Cable Runway/Lightguide Channel Support   | SB-764-ER-24  | Equipment Rack/Lightguide Channel Support         |
| SB-764-CF-8Computer Floor Post / Lightguide Channel SupportSB-765-41/2X5Cable Runway/Lightguide Channel SupportSB-765-41/2X9Cable Runway/Lightguide Channel SupportSB-765-9X5Cable Runway/Lightguide Channel SupportSB-765-9X7Cable Runway/Lightguide Channel Support   | SB-764-ER-44  | Equipment Rack/Lightguide Channel Support         |
| SB-765-41/2X5Cable Runway/Lightguide Channel SupportSB-765-41/2X9Cable Runway/Lightguide Channel SupportSB-765-9X5Cable Runway/Lightguide Channel SupportSB-765-9X7Cable Runway/Lightguide Channel Support  | SB-764-CF-4   | Computer Floor Post/Lightguide Channel Support    |
| SB-765-41/2X9Cable Runway/Lightguide Channel SupportSB-765-9X5Cable Runway/Lightguide Channel SupportSB-765-9X7Cable Runway/Lightguide Channel Support  | SB-764-CF-8   | Computer Floor Post/Lightguide Channel Support    |
| SB-765-9X5Cable Runway/Lightguide Channel SupportSB-765-9X7Cable Runway/Lightguide Channel Support  | SB-765-41/2X5 | Cable Runway/Lightguide Channel Support           |
| SB-765-9X7 Cable Runway/Lightguide Channel Support  | SB-765-41/2X9 | Cable Runway/Lightguide Channel Support           |
| ,   | SB-765-9X5    | Cable Runway/Lightguide Channel Support           |
|   | SB-765-9X7    | Cable Runway/Lightguide Channel Support           |
| SB-765-9X9 Cable Runway/Lightguide Channel Support  | SB-765-9X9    | Cable Runway/Lightguide Channel Support           |







See Lightguide Design and Installation Manual for more information.

(Viewable online at www.hellermann.tyton.com - go to products then manuals.)

#### **Converter Kit**

When the complete connection of duct and tubing is required, or rigid Lightguide components may not fit through a certain area, the converter kit can be used. The kit consists of two gray PVC connectors, a section of black convoluted tubing, and two black Snapper clamps (SNP42) to secure the converters to the tubing. The black convoluted tubing is available in lengths of 2 feet, 4 feet, and 6 feet. The converter kit provides a smooth transition from 2" x 2" Lightguide to 1-1/2" flexible tubing.



| HELLERMANNTYTON<br>PART NO. | DESCRIPTION   | PKG. QTY. |
|-----------------------------|---|-----------|
| TFJK2X2                     | Kit containing two gray connectors, 2 foot section black convoluted tubing<br>& two black Snapper clamps. | 1         |
| TFJK2X2-4                   | Kit containing two gray connectors, 4 foot section black convoluted tubing<br>& two black Snapper clamps. | 1         |
| TFJK2X2-6                   | Kit containing two gray connectors, 6 foot section black convoluted tubing & two black Snapper clamps.    | 1         |
| TJ2XRD                      | Gray connector  | 1         |

See page 118 for bulk convoluted tubing.

#### SURFACE RACEWAY SYSTEMS

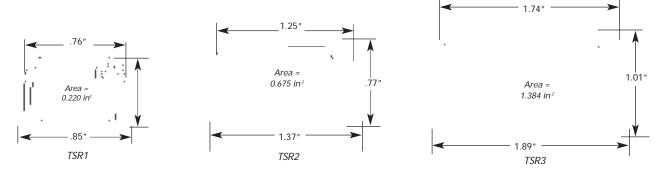
HellermannTyton's surface raceway systems are industry preferred for their sleek designs, labor savings features, and durability. With the recent addition of the new TSRP power surface raceway, HellermannTyton offers an integrated raceway package which fits together to meet the requirements of most any raceway application. Installed at school systems, hospitals, research centers, factories, offices, and many other end-user locations, HellermannTyton's raceway systems make the difference in aesthetics, durability and cost savings through designs which promote easy installation.

#### **TSR-LOW VOLTAGE SURFACE RACEWAY**

HellermannTyton's low voltage raceway (TSR) is a one piece, non-metallic, adhesive backed latching raceway designed to aesthetically organize and route communications wires including high speed UTP cable and fiber optic cable from the telecommunications room to the work area.

- Tamper resistant, the cover's self-locking, hidden positive latch permits quick re-entry as well as providing a secure installation of premise wire.
- Manufactured from UL 94V-0 rated PVC material
- Fittings incorporate a minimum 1" bend radius per TIA/EIA 568-B and 569-A standards.
- Rubber-based foam tape adhesive with high ultimate bond strength conforms to any surface.
- Flexible hinge allows the raceway to endure numerous openings without creating discoloration or stress cracking.
- Junction boxes can be used for electrical or data outlets
- Available in 6 and 8 ft. lengths in three widths 3/4", 1-1/4" and 1-3/4" for varying cabling requirements.





|                             |                                  |                             | LISTED                     |
|-----------------------------|----------------------------------|-----------------------------|----------------------------|
| HELLERMANNTYTON<br>PART NO. | DESCRIPTION                      | DIMENSIONS                  | PKG. QTY.                  |
| TSR1 Raceway                |                                  |                             |                            |
| TSR1X-6A                    | 3/4" One Piece Surface Raceway   | 3/4" (W) x 1/2" (H) x 6'(L) | 120 feet of 6 foot lengths |
| TSR1X-8A                    | 3/4" One Piece Surface Raceway   | 3/4" (W) x 1/2" (H) x 8'(L) | 160 feet of 8 foot lengths |
| TSR2 Raceway                |                                  |                             |                            |
| TSR2X-6A                    | 1-1/4" One Piece Surface Raceway | 1-1/4"(W) x 3/4"(H) x 6'(L) | 120 feet of 6 foot lengths |
| TSR2X-8A                    | 1-1/4" One Piece Surface Raceway | 1-1/4"(W) x 3/4"(H) x 8'(L) | 160 feet of 8 foot lengths |
| TSR3 Raceway                |                                  |                             |                            |
| TSR3X-6A                    | 1-3/4" One Piece Surface Raceway | 1-3/4"(W) x 1"(H) x 6'(L)   | 120 feet of 6 foot lengths |
| TSR3X-8A                    | 1-3/4" One Piece Surface Raceway | 1-3/4"(W) x 1"(H) x 8'(L)   | 160 feet of 8 foot lengths |

Replace "X" in the part number with the following letters for desired color: X = I (ivory), FW (office white), W (white)

#### **TSR- LOW VOLTAGE SURFACE RACEWAY ACCESSORIES**

HellermannTyton provides a complete line of fittings to manage connectivity requirements from the telecommunications room to the work area. Each size of raceway offers numerous fittings, offered in electrical ivory, white or office white, including TIA/EIA-568-B compliant 1" bend radius accessories which help ensure consistent data transmission performance of Category 5, 5e and 6 communications systems.



raceway which eliminates routing and installation inconvenience. All three styles of junction boxes come with adhesive strips on the back of the base and also #6 screws to secure the box to the base. See page 45 for knockout sizes and locations.

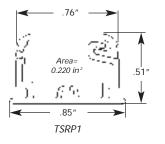
Junction Boxes

#### **TSRP** — POWER SURFACE RACEWAY

HellermannTyton's TSRP power surface raceway is a one piece, non-metallic, adhesive backed latching raceway designed to aesthetically organize and route either power or communications cables.

- Completely tamper resistant, the cover's self-locking, hidden • positive latch permits quick re-entry as well as providing a secure installation of power cables.
- U.L. Listed for power up to 600 Volts, meeting UL5A and • CSA 22.2 No. 62-93 Standards.
- Manufactured from UL 94V-0 rated PVC material •
- Fittings incorporate a minimum 1" bend radius per TIA/EIA . 568-B and 569-A standards.
- Large base for greater adhesive surface. •
- Rubber-based foam tape adhesive with high ultimate bond . strength, which conforms to any surface.
- Flexible hinge allows the raceway to endure numerous ٠ openings without creating discoloration or stress cracking.
- Junction boxes can be used for electrical or data outlets. .
- Designed to complement our industry standard TSR low • voltage raceway system.



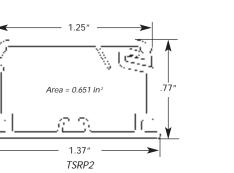


1.74″

Area = 1.361 in<sup>2</sup>

1.89″ TSRP3 1.01″

շահ



| TSRP Power Surface Raceway  |                                  |                             |                            |  |  |  |
|-----------------------------|----------------------------------|-----------------------------|----------------------------|--|--|--|
| HELLERMANNTYTON<br>PART NO. | DESCRIPTION                      | DIMENSIONS                  | PKG. QTY.                  |  |  |  |
| TSRP1 Raceway               |                                  |                             |                            |  |  |  |
| TSRP1X-6A                   | 3/4" One Piece Surface Raceway   | 3/4"(W) x 1/2"(H) x 6'(L)   | 120 feet of 6 foot lengths |  |  |  |
| TSRP1X-8A                   | 3/4" One Piece Surface Raceway   | 3/4"(W) x 1/2"(H) x 8'(L)   | 160 feet of 8 foot lengths |  |  |  |
| TSRP2 Raceway               |                                  |                             |                            |  |  |  |
| TSRP2X-6A                   | 1-1/4" One Piece Surface Raceway | 1-1/4"(W) x 3/4"(H) x 6'(L) | 120 feet of 6 foot lengths |  |  |  |
| TSRP2X-8A                   | 1-1/4" One Piece Surface Raceway | 1-1/4"(W) x 3/4"(H) x 8'(L) | 160 feet of 8 foot lengths |  |  |  |
| TSRP3 Raceway               |                                  |                             |                            |  |  |  |
| TSRP3X-6A                   | 1-3/4" One Piece Surface Raceway | 1-3/4"(W) x 1"(H) x 6'(L)   | 120 feet of 6 foot lengths |  |  |  |
| TSRP3X-8A                   | 1-3/4" One Piece Surface Raceway | 1-3/4"(W) x 1"(H) x 8'(L)   | 160 feet of 8 foot lengths |  |  |  |

Replace "X" in the part number with the following letters for desired color: X = I (ivory), FW (office white), W (white)

#### **TSRP Power Surface Raceway Accessories**

HellermannTyton provides a complete line of fittings to manage connectivity requirements from the telecommunications room to the work area. Each size of raceway offers numerous fittings, offered in electrical ivory, white or office white, including TIA/EIA-568-B compliant 1" bend radius accessories which help ensure consistent data transmission performance of Category 5, 5e and 6 communications systems.



Corner

Reducer

Externa

Corner

Designated with -12

Designated with -29-1

Designated with -33-1



Designated with -25-1



Designated with -36



Designated with -14



Designated with -21-1



| HELLERMANN              | N DESCRIPTION  |                      |  |  |
|-------------------------|--|----------------------|--|--|
| TYTON PART NO.          |  | QTY.                 |  |  |
|                         |  |                      |  |  |
| TSRP1 Fittings          |  |                      |  |  |
| TSRP1X-14               | Splice Cover – 3/4"                                    | 10                   |  |  |
| TSRP1X-21-1             | Tee – 3/4" –1" Bend Radius                             | 10                   |  |  |
| TSRP1X-25-1             | Elbow – 3/4" –1" Bend Radius                           | 10                   |  |  |
| TSRP1X-29-1             | External Corner – 3/4" –1" Bend Radius                 | 10                   |  |  |
| TSRP1X-33-1             | Internal Corner – 3/4" –1" Bend Radius                 | 10                   |  |  |
| TSRP1X-36               | End Cap – 3/4''  | 10                   |  |  |
| TSRP1X-50               | Ceiling Drop – 3/4"*                                   | 10                   |  |  |
| TSRP2 Fittings          |  |                      |  |  |
| TSRP2X-14               | Splice Cover – 1-1/4"                                  | 10                   |  |  |
| TSRP2X-21-1             | Tee – 1-1/4" –1" Bend Radius                           | 10                   |  |  |
| TSRP2X-25-1             | Elbow – 1-1/4" –1" Bend Radius                         | 10                   |  |  |
| TSRP2X-29-1             | External Corner – 1-1/4" –1" Bend Radius               | 10                   |  |  |
| TSRP2X-33-1             | Internal Corner – 1-1/4" –1" Bend Radius               | 10                   |  |  |
| TSRP2X-36               | End Cap – 1-1/4"                                       | 10                   |  |  |
| TSRP2X-50               | Ceiling Drop – 1-1/4"*                                 | 10                   |  |  |
| TSRP3 Fittings          |  |                      |  |  |
| TSRP3X-14               | Splice Cover – 1-3/4"                                  | 10                   |  |  |
| TSRP3X-21-1             | Tee – 1-3/4" –1" Bend Radius                           | 10                   |  |  |
| TSRP3X-25-1             | Elbow – 1-3/4" –1" Bend Radius                         | 10                   |  |  |
| TSRP3X-29-1             | External Corner – 1-3/4" –1" Bend Radius               | 10                   |  |  |
| TSRP3X-33-1             | Internal Corner – 1-3/4" –1" Bend Radius               | 10                   |  |  |
| TSRP3X-36               | End Cap – 1-3/4"                                       | 10                   |  |  |
| TSRP3X-50               | Ceiling Drop – 1-3/4"*                                 | 10                   |  |  |
|                         |  | 10                   |  |  |
| Reducers                |  |                      |  |  |
| TSRP1X-12               | Reducer – 1-3/4" to 1-1/4" (TSRP3 to TSRP2)            | 10                   |  |  |
| TSRP2X-12               | Reducer – 1-3/4" to 3/4" (TSRP3 to TSRP1)              | 10                   |  |  |
| TSRP3X-12               | Reducer – 1-1/4" to 3/4" (TSRP2 to TSRP1)              | 10                   |  |  |
| Junction Boxes          |  |                      |  |  |
| TSRP1X-JB1              | Single Gang - 3" (W) x 4.75" (L) x 1.25" (H)           | 1                    |  |  |
| TSRP2X-JB2              | Single Gang - 3" (W) x 4.75" (L) x 2" (H)              | 1                    |  |  |
| TSRP3X-JBD              | Dual Gang - 4.91" (W) x 4.83" (L) x 1.25" (H)          | 1                    |  |  |
| Replace "X" in the part | number with the following letters for desired color: . | X = I (ivorv). FW (c |  |  |

Replace "X" in the part number with the following letters for desired color: X = I (ivory), FW (office white), W (white) \* Note: TSRPXX-50 accepts 1/2" and 3/4" conduit.

Junction Boxes

Offered in a dual or single gang format, HellermannTyton's powerrated junction boxes are versatile enough for any network cabling application. Available in varying depths, these boxes are all equipped with concentric knockouts on all four sides for every TSRP size of raceway which eliminates routing and installation inconvenience. All three styles of junction boxes come with adhesive strips on the back of the base and #6 screws to secure the box to the base. See page 45 for knockout sizes and locations.

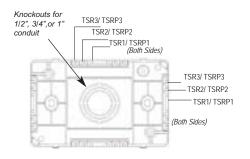
#### **TSR and TSRP Wire Fill Chart**

|                 |                  |         |                | Lo  | w Volta        | ige - TS | R    |                           |                | Po  | ower Ra     | ited - TS | SRP            |                            |
|-----------------|------------------|---------|----------------|-----|----------------|----------|------|---------------------------|----------------|-----|-------------|-----------|----------------|----------------------------|
|                 |                  | O.D. of | TSI<br>A = 0.2 |     | TSF<br>A = 0.0 |          |      | R3<br>384 in <sup>2</sup> | TSR<br>A = 0.2 |     | TSRIA = 0.0 |           | TSRP<br>A = 1. | 93<br>.361 in <sup>2</sup> |
| Wire Type       | Wire Size        | Wire    | Spec           | Max | Spec           | Max      | Spec | Max                       | Spec           | Max | Spec        | Max       | Spec           | Max                        |
| Twisted Pair    | 2 Pr.            | 0.140   | 5              | 8   | 17             | 26       | 35   | 53                        | 5              | 8   | 16          | 25        | 35             | 53                         |
| 24 AWG          | 3 Pr.            | 0.150   | 4              | 7   | 15             | 22       | 31   | 46                        | 4              | 7   | 14          | 22        | 30             | 46                         |
| Unshielded      | 4 Pr. Cat 5e     | 0.217   | 2              | 3   | 7              | 10       | 14   | 22                        | 2              | 3   | 7           | 10        | 14             | 22                         |
|                 | 4 Pr. Cat 6      | 0.240   | 1              | 2   | 5              | 8        | 12   | 18                        | 1              | 2   | 5           | 8         | 12             | 18                         |
|                 | 25 Pr.           | 0.410   | 0              | 0   | 2              | 3        | 4    | 6                         | 0              | 0   | 1           | 2         | 4              | 6                          |
| Coax            | RG58/U           | 0.193   | 3              | 4   | 9              | 13       | 18   | 28                        | 2              | 4   | 8           | 13        | 18             | 27                         |
|                 | RG59/U or RG62/U | 0.242   | 1              | 2   | 5              | 8        | 12   | 18                        | 1              | 2   | 4           | 6         | 9              | 14                         |
|                 | RG6/U            | 0.270   | 1              | 2   | 4              | 7        | 9    | 14                        | 1              | 2   | 4           | 6         | 9              | 14                         |
| Fiber Optic     | 2 Strand         | 0.175   | 3              | 5   | 11             | 16       | 23   | 34                        | 3              | 5   | 10          | 16        | 22             | 33                         |
| FA Jacket       | 4 Strand         | 0.185   | 3              | 4   | 10             | 15       | 20   | 30                        | 3              | 4   | 9           | 14        | 20             | 30                         |
| OFNP            | 6 Strand         | 0.210   | 2              | 3   | 7              | 11       | 15   | 23                        | 2              | 3   | 7           | 11        | 15             | 23                         |
| Electrical Wire | 14 AWG THHN      | 0.105   | -              | -   | -              | -        | -    | -                         | -              | 8   | -           | 11        | -              | 15                         |
|                 | 12 AWG THHN      | 0.122   | -              | -   | -              | -        | -    | -                         | -              | 6   | -           | 9         | -              | 12                         |
|                 | 10 AWG THHN      | 0.153   | -              | -   | -              | -        | -    | -                         | -              | 4   | -           | 6         | -              | 7                          |

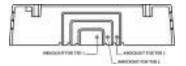
Formula used to calculate communications wire fill capacity - Numbers of wires = duct / {1/4 x 3.14 x (wire o.d.)<sup>2</sup>} x 0.4 or 0.6. Per ANSI/TIA/EIA-569-A-:

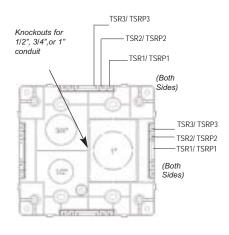
SPEC = 40% fill which is recommended for planning perimeter pathways MAX (for data) = 60% fill which is allowed to accommodate unplanned additions after initial installation MAX (for power) = Maximum number determined by UL temperature testing

#### **TSR and TSRP Junction Box Knockout Locations**



JB1, JB2 -SINGLE GANG





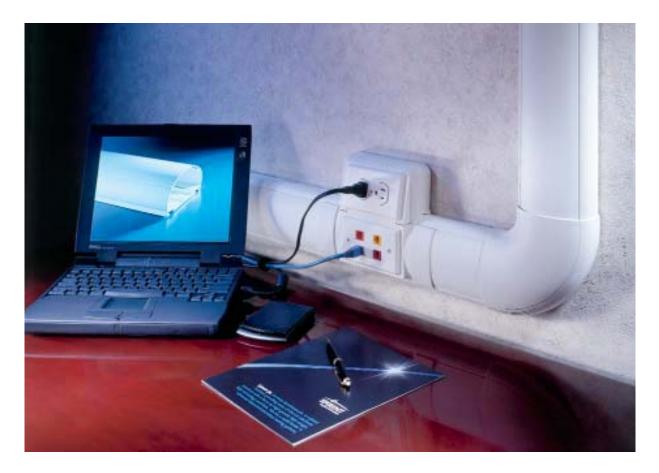
JBD -DUAL GANG

#### INFOSTREAM<sup>™</sup> Multi-Channel Raceway



HellermannTyton's InfoStream is a revolutionary design for a non-metallic raceway system. The elliptical shape is aesthetically pleasing to customers when compared to other designs. By using the three rails to snap in dividers, the InfoStream system can accommodate up to four separate channels of electrical, voice, data, video or fiber optic cabling. InfoStream's unique and patented design make installations quicker and easier. The raceway and fittings are manufactured from a UL 94V-0 rated material.

- All fittings have been designed to maintain the required 1" minimum bend radius per TIA/EIA-568-B and 569-A standards.
- U.L. Listed to 600 Volts Meets new UL5A and CSA 22.2 No. 62-93 standards.
- Patented hinged cover speeds installation time by allowing installer to partially mount cover prior to laying cables.
- Light weight also eases installation and reduces labor costs.
- Offset elbow is the only solution currently on the market for wall offsets between 2-6".
- Mates directly with HellermannTyton's TSR and TSRP -single channel raceway system.
- System is designed to accept all NEMA standard faceplates and devices.
- Offset box gives installer the option to offset electrical outlet above or below raceway.
- Cable tie mount retains cables inside of channel if necessary and accepts standard HellermannTyton cable ties.
- Entrance end fitting allows entrance into raceway from ceiling or through wall.



### Routing and raceway ${\tt products}$

#### INFOSTREAM<sup>™</sup> Multi-Channel Raceway Diagram

| End Cap   |               |                                    |
|---|---------------|------------------------------------|
| Electrical Device Bracket                       |               |                                    |
| Duplex Faceplate     (FP106)                    |               | 25                                 |
| Flat Elbow ———————————————————————————————————— |               | NEMA Standard<br>Electrical Device |
| Communications Device Bracket (MCR-CDB)         | Modular Jacks | Telecommunications                 |
| Cover Splice (MCR-CS)                           | (RJ45)        | (FPQUAD)<br>Offset Box             |
| NEMA Standard Electrical Device                 | 99            | (MCR-OB)                           |
| Tee Fitting(MCR-TE)                             |               | End Cap<br>(MCR-EC)                |
| Telecommunications Faceplate                    |               | TSR Junction Box<br>(TSR-JB2)      |
| Modular Jacks<br>(RJ45)                         |               | Telecommunications                 |
| Electrical Device Bracket (MCR-EDB)             |               | Faceplate<br>(FPSIX)               |
| Duplex Faceplate (FP106)                        | ð.            |                                    |
| NEMA Standard Electrical Device                 |               |                                    |
| Communications Device Bracket(MCR-CDB)          |               |                                    |
| Modular Faceplate w/Inserts                     | <u>.</u>      |                                    |
| Modular Jacks (RJ45)                            |               |                                    |
| TSR Raceway(TSR-6A)                             |               |                                    |
| Flat Elbow (MCR-FE)                             | -             |                                    |
| Base Splice                                     |               |                                    |
| TSR Transition Fitting<br>(MCR-TF)              |               |                                    |
| End Cap —                                       |               |                                    |

(MCR-EC)

#### **INFOSTREAM**<sup>™</sup> **Multi-Channel Raceway**

#### Power and Data Only



#### Power Only Configuration

Components: Electrical Device Bracket (MCR-EDB) Area: 2.50 sq. in.



#### **Data Only Configuration**

Components: Communications Device Bracket (MCR-CDB) Area: 3.08 sq. in.

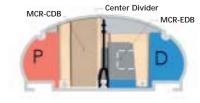
#### **Power and Data Inline**

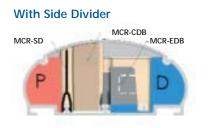


### With Side Divider MCR-RDB MCR-REB MCR-SD

**High Data Capacity Option** 

#### With Center Divider





#### High Capacity / Side Divider Configuration

| Components: | <ul> <li>Raceway Side Divider (MCR-SD)</li> <li>Raised Device Bracket<br/>(MCR-RDB)</li> <li>Raised Electrical Bracket<br/>(MCR-REB)</li> </ul> |
|-------------|---|
| Data Area:  | 2.45 sq. in.  |
| Power Area: | 0.80 sq. in.  |
|             |   |

#### **Center Divider Configuration**

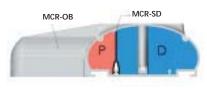
| Components:     | <ul> <li>Raceway Center Divider<br/>(included with base)</li> <li>Communications Device<br/>Bracket (MCR-CDB)</li> <li>Electrical Device Bracket<br/>(MCR-EDB)</li> </ul> |
|-----------------|---|
| Data Area:      | 1.15 sq. in.  |
| Power Area:     | 1.00 sq. in.  |
| Side Divider Co | nfiguration   |

#### Side Divider Configuration

| Components: | <ul> <li>Raceway Side Divider (MCR-SD)</li> </ul> |
|-------------|---|
|             | <ul> <li>Communications Device</li> </ul>         |
|             | Bracket (MCR-CDB)                                 |
|             | <ul> <li>Electrical Device Bracket</li> </ul>     |
|             | (MCR-EDB)   |
| Data Area:  | 1.15 sq. in.                                      |
| Power Area: | 1.00 sq. in.                                      |
|             |   |

#### **Offset Box with Data**





#### Offset Box with Data Configuration

 Raceway Side Divider (MCR-SD) Data Area: 4.26 sq. in. Power Area: 1.22 sq. in.

Offset Box (MCR-OB)

○ Phone:1.800.537.1512 | FAX 414.355.7341

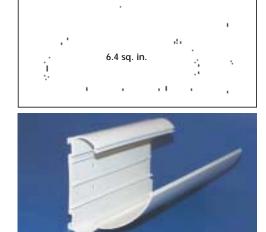
#### **INFOSTREAM**<sup>™</sup> **Multi-Channel Raceway**



Unique, streamlined design enhances the aesthetics of any installation.







Hinged cover speeds installation.



PKG. QTY.

| Hellermann<br>Tyton<br>Part No. | DESCRIPTION  |  |
|---------------------------------|--|--|
|                                 | Base is supplied with pre-punched mounting slots every 8".<br>Center and side dividers are not interchangeable. Raceway<br>base also includes adhesive double-sided tape for aid in<br>mounting. Raceway must still be properly fastened to the<br>wall per included instructions. |  |

| MCRX-B8   | Raceway Base – 8 feet with <b>center</b> divider  | 48 feet |
|-----------|---|---------|
| MCRX-B10  | Raceway Base – 10 feet with <b>center</b> divider | 60 feet |
| MCRX-BS8  | Raceway Base – 8 feet with <b>side</b> divider    | 48 feet |
| MCRX-BS10 | Raceway Base – 10 feet with <b>side</b> divider   | 60 feet |

Replace "X" in the part number with the following letters for desired color: X = I (ivory), FW (office white)



#### Multi-Channel Raceway Cover

Multi-Channel Raceway Divider

**Multi-Channel Raceway Base** 



| Marti-Charmer                   | Raceway Cover                                     | LISIED             |
|---------------------------------|---|--------------------|
| Hellermann<br>Tyton<br>Part No. | DESCRIPTION                                       | PKG.<br>QTY.       |
| MCRX-C8<br>MCRX-C10             | Raceway Cover - 8 feet<br>Raceway Cover - 10 feet | 48 feet<br>60 feet |

Replace "X" in the part number with the following letters for desired color: X = I (ivory), FW (office white)

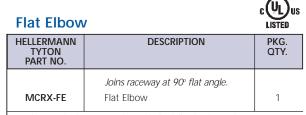


| Marti onannei                   | Raceway Divider   |                     |
|---------------------------------|---|---------------------|
| HELLERMANN<br>TYTON<br>PART NO. | DESCRIPTION   | PKG.<br>QTY.        |
|                                 | Snaps onto either side of raceway base rails for proper power and data separation per UL/CSA. |                     |
| MCRW-SD8<br>MCRW-SD10           | White Raceway Side Divider – 8 feet<br>White Raceway Side Divider– 10 feet                    | 96 feet<br>120 feet |



#### INFOSTREAM<sup>™</sup> Multi-Channel Raceway





Replace "X" in the part number with the following letters for desired color: X = I (ivory), FW (office white)



| External Elbow                  |   | LISTED       |
|---------------------------------|---|--------------|
| HELLERMANN<br>TYTON<br>PART NO. | DESCRIPTION   | PKG.<br>QTY. |
| MCRX-EE                         | <i>Joins raceway at 90° outside corner.</i><br>External Elbow | 1            |

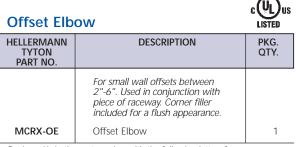
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Replace "X" in the part number with the following letters for desired color: X = I (ivory), FW (office white)



| Internal Elbow                  |                                     | LISTED       |
|---------------------------------|-------------------------------------|--------------|
| Hellermann<br>Tyton<br>Part No. | DESCRIPTION                         | PKG.<br>QTY. |
|                                 | Joins raceway at 90° inside corner. |              |
| MCRX-IE                         | Internal Elbow                      | 1            |

Replace "X" in the part number with the following letters for desired color: X = I (ivory), FW (office white)



Replace "X" in the part number with the following letters for desired color: X = I (ivory), FW (office white)

| Tee Fitting                     | I   |              |
|---------------------------------|---|--------------|
| HELLERMANN<br>TYTON<br>PART NO. | DESCRIPTION                                       | PKG.<br>QTY. |
|                                 | Joins 3 sections of raceway and includes divider. |              |
| MCRX-TE                         | Tee Fitting                                       | 1            |

Replace "X" in the part number with the following letters for desired color: X = I (ivory), FW (office white)



### **INFOSTREAM™**





#### **Base Splice**

**Cover Splice** 

HELLERMANN

TYTON PART NO

MCRX-CS

| Dase splice                     |                                   | LISTED       |
|---------------------------------|-----------------------------------|--------------|
| Hellermann<br>Tyton<br>Part No. | DESCRIPTION                       | PKG.<br>QTY. |
|                                 | Joins 2 sections of raceway base. |              |
| MCRX-BS                         | Base Splice                       | 10           |
|                                 |                                   |              |

DESCRIPTION

Joins 2 sections of raceway cover and required with use of Communications and Electrical Device Brackets.

Replace "X" in the part number with the following letters for desired color: X = I (ivory), FW (office white)

Cover Splice

Replace "X" in the part number with the following letters for desired color: X = I (ivory), FW (office white)



PKG.

QTY.

10

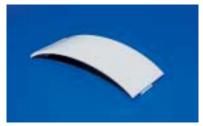
PKG. QTY.

1

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LISTED







Replace "X" in the part number with the following letters for desired color: X = I (ivory), FW (office white)





X = I (ivory), FW (office white)

#### **Power Transition Fitting**

**Raised Device Bracket** 

| cUL us |
|--------|
| LISTED |

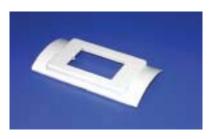
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LISTED



| Hellermann<br>Tyton<br>Part No. | DESCRIPTION   | PKG.<br>QTY. |  |  |
|---------------------------------|---|--------------|--|--|
| MCRX-PTF                        | Knockouts are provided for TSRP1, TSRP2, and TSRP3 surface raceway.<br>Transition Fitting | 1            |  |  |

Replace "X" in the part number with the following letters for desired color: X = I (ivory), FW (office white)

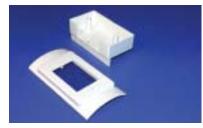


W

Hellermann Tyton Part No. DESCRIPTION PKG. QTY. Used to mount NEMA standard single gang device and faceplate. Raised bracket allows for additional wire fill space and additional device clearance. Use with side divider for 2-channel applications. MCRX-RDB Raised Device Bracket Fitting 10

Replace "X" in the part number with the following letters for desired color: X = I (Electrical Ivory), FW (Office White)

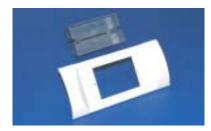
**INFOSTREAM™ Multi-Channel Raceway** 

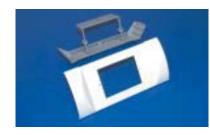












| Raised Ele                      |   |              |
|---------------------------------|---|--------------|
| Hellermann<br>Tyton<br>Part No. | DESCRIPTION   | PKG.<br>QTY. |
|                                 | Used to mount NEMA standard single gang device<br>and faceplate. Raised electrical box allows for<br>additional low voltage wire fill space. Use with side<br>divider for 2-channel applications. |              |
| MCRX-REB                        | Raised Electrical Bracket Fitting   | 5            |
| X = I (Electrical lvc           | e part number with the following letters for desired color:<br>ry), FW (Office White)<br>iner/Tie Mount   |              |

| Hellermann<br>Tyton<br>Part No. | DESCRIPTION  | PKG.<br>QTY. |  |  |  |  |
|---------------------------------|--|--------------|--|--|--|--|
| MCRG-WR                         | Keeps wire & cable in place. Recommend<br>placement every 18" to 24".<br>Wire Retainer – Gray<br>Keeps wire & cable bundled. Accepts standard<br>HellermannTyton cable ties T18-T50. | 10           |  |  |  |  |
| MCRG-TM                         | Tie Mount – Gray   |              |  |  |  |  |
| Offset Box                      | K  | LISTED       |  |  |  |  |

#### **Offset Box**

| Hellermann<br>Tyton<br>Part No. | DESCRIPTION   | PKG.<br>QTY. |
|---------------------------------|---|--------------|
|                                 | Option for communications devices in raceway<br>and electrical outlets on side.                                 |              |
| MCRX-OB                         | Offset Box  | 1            |
| Develope "X" in the             | , where the second the state of the state of the second second second second second second second second second |              |

Replace "X" in the part number with the following letters for desired color: X = I (Electrical Ivory), FW (Office White)

#### **Entrance End**

| Lintrance                       | LISTED  |              |
|---------------------------------|---|--------------|
| Hellermann<br>Tyton<br>Part No. | DESCRIPTION   | PKG.<br>QTY. |
|                                 | For use as a ceiling drop, conduit transition from end<br>or base of raceway, or low voltage entrance from<br>end or base of raceway. Includes dual 0.75", 1.0",<br>1.25", 1.75", 2", and 2.5" knockouts. |              |
| MCRX-ENT                        | Entrance End Fitting  | 1            |
| Replace "X" in the              | e part number with the following letters for desired color:   |              |

X = I (Electrical Ivory), FW (Office White) **Electrical Device Bracket** 

(YL)us

|  | QTY.            |
|--|-----------------|
| Used to mount NEMA standard single gang<br>electrical faceplates — cover splice is required<br>for proper use. |                 |
| Electrical Device Bracket  | 10              |
|  | for proper use. |

Replace "X" in the part number with the following letters for desired color: X = I (ivory), FW (office white)

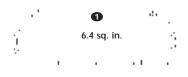


#### **Communications Device Bracket**

| Hellermann<br>Tyton<br>Part No. | DESCRIPTION  | PKG.<br>QTY. |
|---------------------------------|--|--------------|
|                                 | Used to mount NEMA standard single gang<br>faceplates for communications devices —<br>cover splice is required for proper use. |              |
| MCRX-CDB                        | Communications Device Bracket  | 10           |
| Poplaco "V" in the              | part number with the following latters for desired color:  |              |

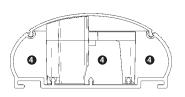
Replace "X" in the part number with the following letters for desired color: X = I (ivory), FW (office white)

#### **INFOSTREAM**<sup>™</sup> **Multi-Channel Raceway**

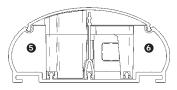


Base and Cover with No Devices

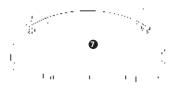
Offset Box with Data (OB)



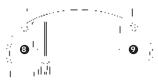
Data Only Using Communications Device Bracket (CDB)



Power and Data Inline (EDB, CDB)



Data Only using Raised Bracket (RDB)



Power and Data Inline using Raised Brackets (REB, RDB)

#### Multi-Channel Raceway Wire Fill Capacity

| LOW VOLTA       | <u>сг</u>                 | Raceway<br>Raceway | Chanı<br>6.40 |          |         | nnel 2<br>20in <sup>2</sup> |          | nnel 3<br>50in <sup>2</sup> |          | nnel 4<br>0in <sup>2</sup> | Chan<br>1.00 |          | Chani<br>1.150 |          | Chan<br>5.88 |     |        | nnel 8<br>D0in <sup>2</sup> | Chan<br>2.45 | nel 9<br>0in <sup>2</sup> |
|-----------------|---------------------------|--------------------|---------------|----------|---------|-----------------------------|----------|-----------------------------|----------|----------------------------|--------------|----------|----------------|----------|--------------|-----|--------|-----------------------------|--------------|---------------------------|
| Wire Type       | Wire Size                 | OD of Wire         | Spec          | Max      | Spec    | Max                         | Spec     | Max                         | Spec     | Max                        | Spec         | Max      | Spec           | Max      | Spec         | Мах | Spec   | Max                         | Spec         | Max                       |
|                 |                           |                    |               |          |         |                             |          |                             |          |                            |              |          |                |          |              |     |        |                             |              |                           |
| Twisted Pair    | 2 Pr.                     | 0.140              | 166           | 249      | 31      | 47                          | 110      | 166                         | 79       | 119                        | 25           | 38       | 29             | 44       | 152          | 229 | 20     | 31                          | 63           | 95                        |
| 24 AWG          | 3 Pr.                     | 0.150              | 144           | 217      | 27      | 41                          | 96       | 144                         | 69       | 103                        | 22           | 33       | 26             | 39       | 133          | 199 | 18     | 27                          | 55           |                           |
| Unshielded      | 4 Pr. Cat 5e              | 0.217              | 69            | 103      | 13      | 19                          | 46       | 69                          | 33       | 49                         | 10           | 16       | 12             | 18       | 63           | 95  | 8      | 12                          | 26           |                           |
|                 | 4 Pr. Cat 6               | 0.240              | 56            | 84       | 10      | 16                          | 37       | 56                          | 27       | 40                         | 8            | 13       | 10             | 15       | 51           | 77  | 7      | 10                          | 21           | 32                        |
|                 | 25 Pr.                    | 0.410              | 19            | 29       | 3       | 5                           | 12       | 19                          | 9        | 13                         | 3            | 4        | 3              | 5        | 17           | 26  | 2      | 3                           | 7            | 11                        |
|                 |                           |                    |               |          |         |                             |          |                             |          |                            |              |          |                |          |              |     |        |                             |              |                           |
| Coax            | RG58/U                    | 0.193              | 87            | 131      | 16      | 25                          | 58       | 87                          | 41       | 62                         | 13           | 20       | 15             | 23       | 80           | 120 | 10     | 16                          | 33           |                           |
|                 | RG59/U or RG62/U<br>RG6/U | 0.242              | 55<br>44      | 83<br>67 | 10<br>8 | 15<br>12                    | 37<br>29 | 55<br>44                    | 26<br>21 | 39<br>32                   | 8            | 13<br>10 | 10             | 15<br>12 | 51<br>41     | 76  | 6<br>5 | 10<br>8                     | 21<br>17     | 31<br>25                  |
|                 | RG0/U                     | 0.270              | 44            | 6/       | 8       | 12                          | 29       | 44                          | 21       | 32                         | 6            | 10       | 8              | 12       | 41           | 61  | 5      | 8                           | 17           | 20                        |
| Fiber Optic     | 2 Strand                  | 0.175              | 106           | 159      | 20      | 30                          | 70       | 106                         | 50       | 76                         | 16           | 24       | 19             | 28       | 97           | 146 | 13     | 19                          | 40           | 61                        |
| FA Jacket       | 4 Strand                  | 0.185              | 95            | 142      | 18      | 27                          | 63       | 95                          | 45       | 68                         | 14           | 22       | 17             | 25       | 87           | 131 | 11     | 17                          | 36           |                           |
| OFNP            | 6 Strand                  | 0.210              | 73            | 110      | 14      | 21                          | 49       | 73                          | 35       | 53                         | 11           | 17       | 13             | 19       | 67           | 101 | 9      | 13                          | 28           | 42                        |
| Fiber Optic     | 2 Strand                  | 0.175              | 106           | 159      | 20      | 30                          | 70       | 106                         | 50       | 76                         | 16           | 24       | 19             | 28       | 97           | 146 | 13     | 19                          | 40           | 61                        |
| 62.5/125/900    | 4 Strand                  | 0.185              | 95            | 142      | 18      | 27                          | 63       | 95                          | 45       | 68                         | 14           | 22       | 17             | 25       | 87           | 131 | 11     | 17                          | 36           | 54                        |
| PVC Jacket      | 6 Strand                  | 0.210              | 73            | 110      | 14      | 21                          | 49       | 73                          | 35       | 53                         | 11           | 17       | 13             | 19       | 67           | 101 | 9      | 13                          | 28           |                           |
| OFNR            | 8 Strand                  | 0.230              | 61            | 92       | 11      | 17                          | 41       | 61                          | 29       | 44                         | 9            | 14       | 11             | 16       | 56           | 84  | 7      | 11                          | 23           |                           |
|                 | 10 Strand                 | 0.250              | 52            | 78       | 9       | 14                          | 34       | 52                          | 24       | 37                         | 8            | 12       | 9              | 14       | 47           | 71  | 6      | 9                           | 19           | 29                        |
| Electrical Wire | 14 AWG THHN               | 0.105              |               | 30       |         | 21                          |          | -                           |          | -                          |              | 17       |                | -        |              | 27  |        | 14                          |              | -                         |
|                 | 12 AWG THHN               | 0.122              |               | 25       |         | 15                          |          | -                           |          | -                          |              | 12       |                | -        |              | 22  |        | 11                          |              | -                         |
|                 | 10 AWG THHN               | 0.153              |               | 19       |         | 9                           |          | -                           |          | -                          |              | 8        |                | -        |              | 17  |        | 8                           |              | -                         |

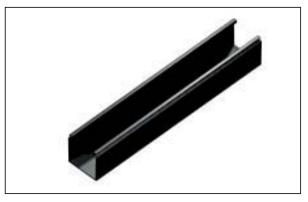
Formula used to calculate communications wire fill capacity - Numbers of wires = duct /  $\{1/4 \times 3.14 \times (wire o.d.)^{\circ}\} \times 0.4$  or 0.6. Per ANSI/TIA/EIA-569-A-: SPEC = 40% fill which is recommended for planning perimeter pathways MAX (for data) = 60% fill which is allowed to accommodate unplanned additions after initial installation MAX (for power) = Maximum number determined by UL temperature testing

HellermannTyton manufactures wiring duct from high impact and rigid PVC for routing and protecting wire and cable.

The slotted duct features break-away fingers which provide additional access for wire and cable. Each section of slotted duct is provided with two score lines. The first one is at the base of the finger which allows the finger to be bent and broken away when a greater opening is required. The second score line is lower which allows a section of the sidewall to be easily removed by simply cutting the sidewall down to the lower score line and snapping out the desired section. These two score lines provide smooth edges to ensure user comfort and cable safety. For straight wire runs where break-outs are not required, HellermannTyton also provides solid wall duct.

The covers are flush with the side of the duct and also are provided with a non-slip plastic lining to ensure that the covers remain in place. **The covers must be ordered separately.** 





#### Wiring Duct

| HELLERMANN<br>TYTON<br>PART NO. | DESCRIPTION                            | *COLOR | PKG. QTY.                  |
|---------------------------------|--|--------|----------------------------|
| SL1X1BK4                        | 1"(W) x 1"(H) x 6'(L) Slotted Duct     | Black  | 120 feet of 6 foot lengths |
| SL1X4BK4                        | 1"(W) x 4"(H) x 6'(L) Slotted Duct     | Black  | 120 feet of 6 foot lengths |
| SL1.5XBK4                       | 1.5"(W) x 4"(H) x 6'(L) Slotted Duct   | Black  | 120 feet of 6 foot lengths |
| SL1.5X1.5BK4                    | 1.5"(W) x 1.5"(H) x 6'(L) Slotted Duct | Black  | 120 feet of 6 foot lengths |
| SL1.5X2BK4                      | 1.5"(W) x 2"(H) x 6'(L) Slotted Duct   | Black  | 120 feet of 6 foot lengths |
| SL2X2BK4                        | 2"(W) x 2"(H) x 6'(L) Slotted Duct     | Black  | 120 feet of 6 foot lengths |
| SL2X3BK4                        | 2"(W) x 3"(H) x 6'(L) Slotted Duct     | Black  | 120 feet of 6 foot lengths |
| SL2X4BK4                        | 2"(W) x 4"(H) x 6'(L) Slotted Duct     | Black  | 120 feet of 6 foot lengths |
| SL3X2BK4                        | 3"(W) x 2"(H) x 6'(L) Slotted Duct     | Black  | 120 feet of 6 foot lengths |
| SL3X3BK4                        | 3"(W) x 3"(H) x 6'(L) Slotted Duct     | Black  | 120 feet of 6 foot lengths |
| SL3X4BK4                        | 3"(W) x 4"(H) x 6'(L) Slotted Duct     | Black  | 120 feet of 6 foot lengths |
| SL3X5BK4                        | 3"(W) x 5"(H) x 6'(L) Slotted Duct     | Black  | 60 feet of 6 foot lengths  |
| SL4X4BK4                        | 4"(W) x 4"(H) x 6'(L) Slotted Duct     | Black  | 120 feet of 6 foot lengths |
| SL4X5BK4                        | 4"(W) x 5"(H) x 6'(L) Slotted Duct     | Black  | 60 feet of 6 foot lengths  |
| SD1X1BK4                        | 1"(W) x 1"(H) x 6'(L) Solid Duct       | Black  | 120 feet of 6 foot lengths |
| SD1.5X1.5BK4                    | 1.5"(W) x 1.5"(H) x 6'(L) Solid Duct   | Black  | 120 feet of 6 foot lengths |
| SD2X2BK4                        | 2"(W) x 2"(H) x 6'(L) Solid Duct       | Black  | 120 feet of 6 foot lengths |
| SD3X3BK4                        | 3"(W) x 3"(H) x 6'(L) Solid Duct       | Black  | 120 feet of 6 foot lengths |
| SD4X4BK4                        | 4"(W) x 4"(H) x 6'(L) Solid Duct       | Black  | 120 feet of 6 foot lengths |
| TC1BK4                          | Cover for 1" Wide Duct                 | Black  | 120 feet of 6 foot lengths |
| TC1.5BK4                        | Cover for 1.5" Wide Duct               | Black  | 120 feet of 6 foot lengths |
| TC2BK4                          | Cover for 2" Wide Duct                 | Black  | 120 feet of 6 foot lengths |
| TC3BK4                          | Cover for 3" Wide Duct                 | Black  | 120 feet of 6 foot lengths |
| TC4BK4                          | Cover for 4" Wide Duct                 | Black  | 120 feet of 6 foot lengths |

\*Also available in standard White and Gray – Call for availability of additional sizes.

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