

Surface Raceway Systems

TSRP Power Rated Raceway System
TSR Low Voltage Raceway System
InfoStream™ Multi-Channel Raceway System

Surface Raceways

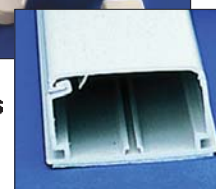
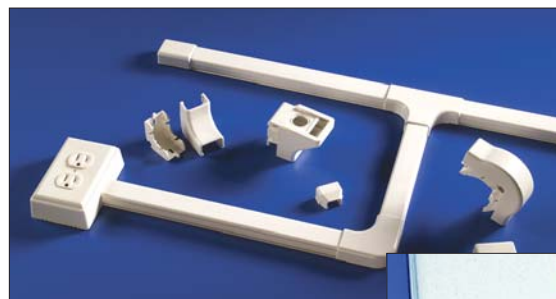
HellermannTyton's surface raceway systems are industry preferred for their sleek designs, labor savings features, and durability. HellermannTyton offers an integrated raceway package which fits together to meet the requirements of most any raceway application. Installed at school systems, hospitals, 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.

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.

TSRP Product Features

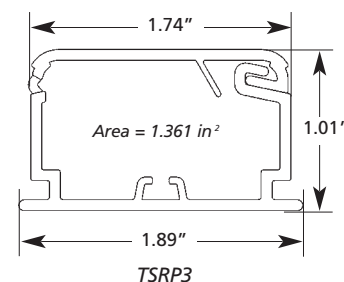
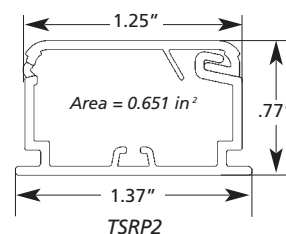
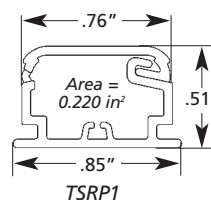
- Completely tamper resistant, the cover's self-locking, hidden positive latch permits quick re-entry as well as providing a secure installation of power cables.
- U.L. Listed for power up to 600 Volts, meeting UL5A and CSA 22.2 No. 62-93 Standards.
- Manufactured from UL 94V-0 rated PVC material
- Fittings 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 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.



"Most people don't realize that there are many choices available when selecting a raceway. If you install the right raceway, it can make the entire room look good, while still offering excellent cable protection."

-Design/Build Customer

TSRP Product Dimensions



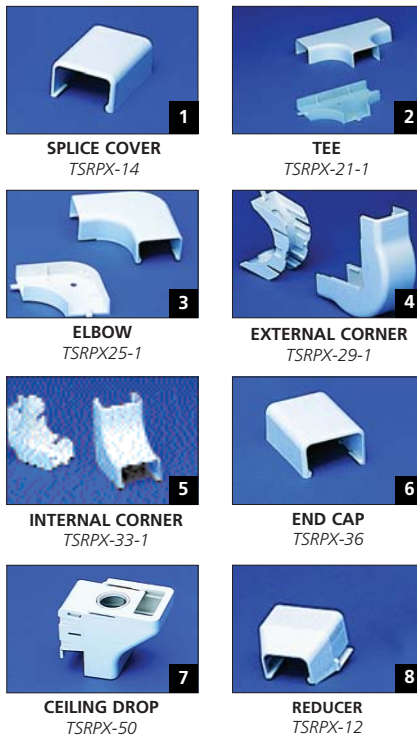
TSRP Product Selection

HellermannTyton Part no.	Description	Dimensions	Pkg. Qty.
<u>TSRP1 Raceway</u>			
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
<u>TSRP2 Raceway</u>			
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
<u>TSRP3 Raceway</u>			
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 power cabling requirements. They are available for each raceway size in the following colors: electrical ivory, white, and office white.

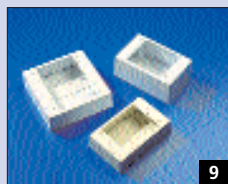


TSRP Product Selection



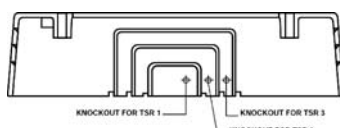
Photo No.	Hellermann-Tyton Part No	Description	Pkg. Qty.
TSRP1 Fittings			
1	TSRP1X-14	Splice Cover – 3/4"	10
2	TSRP1X-21-1	Tee – 3/4" –1" Bend Radius	10
3	TSRP1X-25-1	Elbow – 3/4" –1" Bend Radius	10
4	TSRP1X-29-1	External Corner – 3/4" –1" Bend Radius	10
5	TSRP1X-33-1	Internal Corner – 3/4" –1" Bend Radius	10
6	TSRP1X-36	End Cap – 3/4"	10
7	TSRP1X-50	Ceiling Drop – 3/4" –1" Bend Radius	10
TSRP2 Fittings			
1	TSRP2X-14	Splice Cover – 1-1/4"	10
2	TSRP2X-21-1	Tee – 1-1/4" –1" Bend Radius	10
3	TSRP2X-25-1	Elbow – 1-1/4" –1" Bend Radius	10
4	TSRP2X-29-1	External Corner – 1-1/4" –1" Bend Radius	10
5	TSRP2X-33-1	Internal Corner – 1-1/4" –1" Bend Radius	10
6	TSRP2X-36	End Cap – 1-1/4"	10
7	TSRP2X-50	Ceiling Drop – 1-1/4" –1" Bend Radius	10
TSRP3 Fittings			
1	TSRP3X-14	Splice Cover – 1-3/4"	10
2	TSRP3X-21-1	Tee – 1-3/4" –1" Bend Radius	10
3	TSRP3X-25-1	Elbow – 1-3/4" –1" Bend Radius	10
4	TSRP3X-29-1	External Corner – 1-3/4" –1" Bend Radius	10
5	TSRP3X-33-1	Internal Corner – 1-3/4" –1" Bend Radius	10
6	TSRP3X-36	End Cap – 1-3/4"	10
7	TSRP3X-50	Ceiling Drop – 1-3/4" –1" Bend Radius	10
Reducers			
8	TSRP1X-12	Reducer – 1-3/4" to 1-1/4" (TSRP3 to TSRP2)	10
8	TSRP2X-12	Reducer – 1-3/4" to 3/4" (TSRP3 to TSRP1)	10
8	TSRP3X-12	Reducer – 1-1/4" to 3/4" (TSRP2 to TSRP1)	10
Junction Boxes			
9	TSRPX-JB1	Single Gang - 3"(W) x 4.75"(L) x 1.25"(H)	1
9	TSRPX-JB2	Single Gang - 3"(W) x 4.75"(L) x 2"(H)	1
9	TSRPX-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 (ivory), FW (office white), W (white)

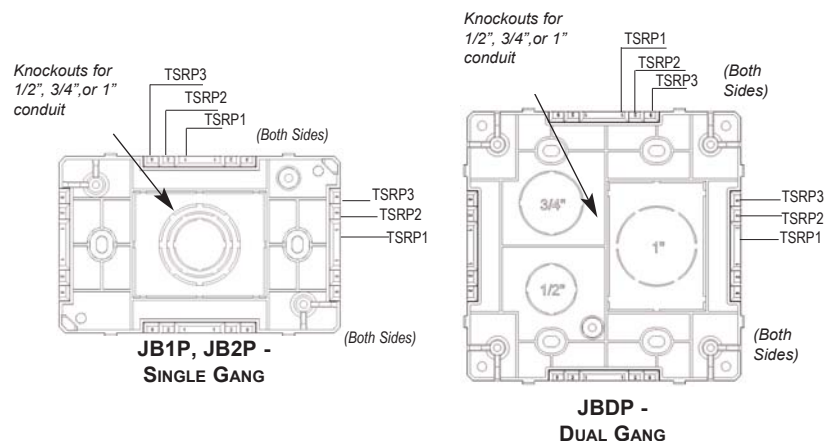


Junction Boxes

Offered in a dual or single gang format, HellermannTyton's power-rated junction boxes are versatile enough for any power 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.



TSRP Junction Box Knockout Locations



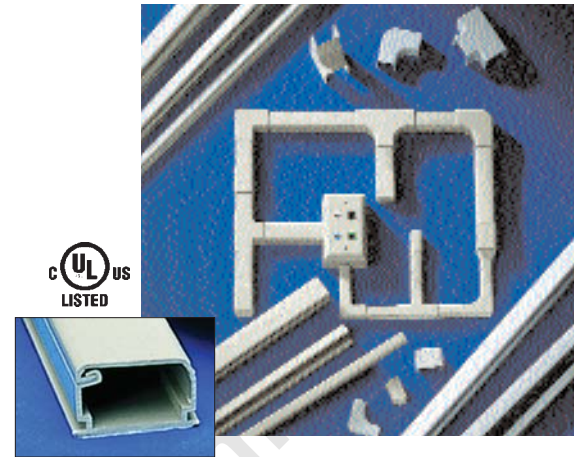
Surface Raceways

TSR — LOW VOLTAGE SURFACE RACEWAY

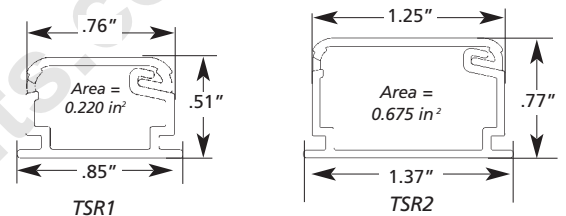
HellermannTyton's low voltage raceway (TSR) is a one piece, non-metallic, adhesive backed latching raceway designed to aesthetically organize and route communications wires including high speed UTP cable and fiber optic cable from the telecommunications area to the workstation.

TSR Product Features

- 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.

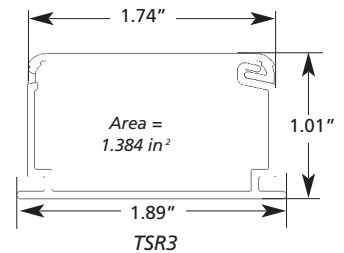


TSR Product Dimensions



TSR Product Selection

HellermannTyton 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 and TSRP Wire Fill Chart

Wire Type	Wire Size	O.D. of Wire	Low Voltage - TSR						Power Rated - TSRP					
			TSR1		TSR2		TSR3		TSRP 1		TSRP 2		TSRP3	
			A = 0.220 in²		A = 0.675 in²		A = 1.384 in²		A = 0.220 in²		A = 0.651 in²		A = 1.361 in²	
			Spec	Max	Spec	Max	Spec	Max	Spec	Max	Spec	Max	Spec	Max
Twisted Pair 24 AWG Unshielded	2 Pr.	0.140	5	8	17	26	35	53	5	8	16	25	35	53
	3 Pr.	0.150	4	7	15	22	31	46	4	7	14	22	30	46
	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 FA Jacket OFNP	2 Strand	0.175	3	5	11	16	23	34	3	5	10	16	22	33
	4 Strand	0.185	3	4	10	15	20	30	3	4	9	14	20	30
	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.)²} 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 — LOW VOLTAGE SURFACE RACEWAY ACCESSORIES

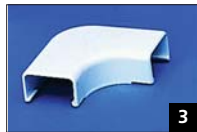
HellermannTyton provides a complete line of fittings to manage connectivity requirements from the telecommunications area to the workstation. Each size of raceway offers numerous fittings, offered in electrical ivory, white or office white, including TIA/EIA-568-B compliant 1" bend radius accessories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



SPLICE COVER
TSRX-14



TEE COVER
TSRX-21-1



ELBOW
TSRX-25-1



EXTERNAL CORNER
TSRX-29-1



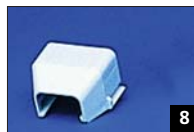
INTERNAL CORNER
TSRX-33-1



END CAP
TSRX-36



CEILING DROP
TSRX-50



REDUCER
TSRX-12

TSR Product Selection



Photo No.	Hellermann-Tyton Part No.	Description	Pkg. Qty.
TSR1 Fittings			
1	TSR1X-14	Splice Cover – 3/4"	10
2	TSR1X-21-1	Tee Cover – 3/4" – 1" Bend Radius	10
3	TSR1X-25-1	Elbow Cover – 3/4" – 1" Bend Radius	10
4	TSR1X-29-1	External Cover – 3/4" – 1" Bend Radius	10
5	TSR1X-33-1	Internal Cover – 3/4" – 1" Bend Radius	10
6	TSR1X-36	End Cap – 3/4"	10
7	TSR1X-50	Ceiling Drop – 3/4"	10
TSR2 Fittings			
1	TSR2X-14	Splice Cover – 1-1/4"	10
2	TSR2X-21-1	Tee Cover – 1-1/4" – 1" Bend Radius	10
3	TSR2X-25-1	Elbow Cover – 1-1/4" – 1" Bend Radius	10
4	TSR2X-29-1	External Cover – 1-1/4" – 1" Bend Radius	10
5	TSR2X-33-1	Internal Cover – 1-1/4" – 1" Bend Radius	10
6	TSR2X-36	End Cap – 1-1/4"	10
7	TSR2X-50	Ceiling Drop – 1-1/4"	10
TSR3 Fittings			
1	TSR3X-14	Splice Cover – 1-3/4"	10
2	TSR3X-21-1	Tee Cover – 1-3/4" – 1" Bend Radius	10
3	TSR3X-25-1	Elbow Cover – 1-3/4" – 1" Bend Radius	10
4	TSR3X-29-1	External Cover – 1-3/4" – 1" Bend Radius	10
5	TSR3X-33-1	Internal Cover – 1-3/4" – 1" Bend Radius	10
6	TSR3X-36	End Cap – 1-3/4"	10
7	TSR3X-50	Ceiling Drop – 1-3/4"	10
Reducers			
8	TSR1X-12	Reducer – 1-3/4" to 1-1/4" (TSR3 to TSR2)	10
8	TSR2X-12	Reducer – 1-3/4" to 3/4" (TSR3 to TSR1)	10
8	TSR3X-12	Reducer – 1-1/4" to 3/4" (TSR2 to TSR1)	10
Junction Boxes			
9	TSRX-JB1	Single Gang - 3"(W) x 4.75"(L) x 1.25"(H)	1
9	TSRX-JB2	Single Gang - 3"(W) x 4.75"(L) x 2"(H)	1
9	TSRX-JBD	Dual Gang - 4.91"(W) x 4.83"(L) x 1.25"(H)	1

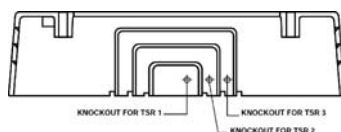
Replace "X" in the part number with the following letters for desired color: X = I (ivory), FW (office white), W (white)



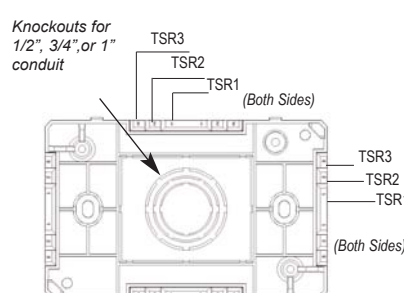
Junction Boxes

Offered in a dual or single gang format, HellermannTyton's low voltage junction boxes are versatile enough for any network cabling application.

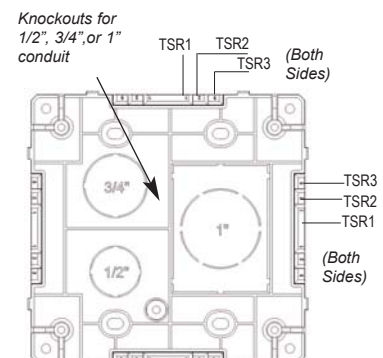
Available in varying depths, these boxes are all equipped with concentric knockouts on all four sides for every TSR size of raceway which eliminates routing and installation inconvenience. All three styles of junction boxes come with adhesive strips on the back of the base and also #6 screws to secure the box to the base.



TSR Junction Boxes Knockout Locations



**JB1, JB2 -
SINGLE GANG**



**JBD -
DUAL GANG**

Surface Raceways

INFOSTREAM™ — 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 makes installation quicker and easier. The raceway and fittings are manufactured from a UL 94V-0 rated material.

InfoStream™ Product Features

- All fittings are designed to maintain the required 1" minimum bend radius per TIA/EIA-568-A 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 the 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 systems.
- 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.



"I've had customers tell me that they thought the raceway was going to be this ugly stick hanging on the wall. But with the HellermannTyton raceway, it looks nice, blends in, and our customers are always impressed with it."

-Contractor Customer

"The hinged cover (of HellermannTyton's InfoStream raceway) makes a great deal of difference during the installation. You don't have to use devices to hold the cable in place while you're installing the raceway."

-Contractor Customer



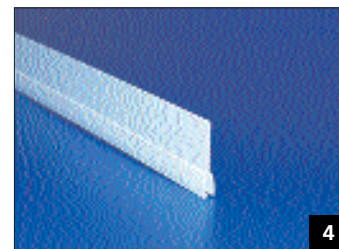
Raceway Base with Side Divider
MCRx-B8 or MCRx-B10



Raceway Base with Center Divider
MCRx-B8 or MCRx-B10



Raceway Cover
MCRx-C8 or MCRx-C10



Raceway Side Divider
MCRW-SD8 or MCRW-SD10

INFOSTREAM™ — MULTI-CHANNEL RACEWAY



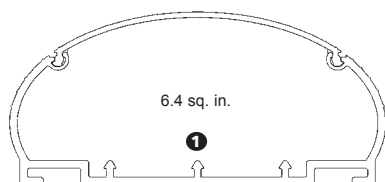
InfoStream™ Product Selection



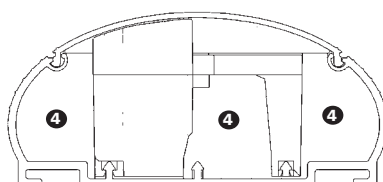
Photo No	HellermannTyton Part Number	Description	Pkg. Qty.	Carton Qty.
1	MCRX-BS8	Raceway Base – 8 ft. with side divider	48 ft.	
1	MCRX-BS10	Raceway Base – 10 ft. with side divider Base is supplied with pre-punched/slotted mounting holes every 8".	60 ft.	
2	MCRX-B8	Raceway Base – 8 ft. with center divider	48 ft.	
2	MCRX-B10	Raceway Base – 10 ft. with center divider Center and side dividers are not interchangeable.	60 ft.	
3	MCRX-C8	Raceway Cover – 8 ft.	48 ft.	
3	MCRX-C10	Raceway Cover – 10 ft.	60 ft.	
4	MCRW-SD8	Raceway Side Divider – 8 ft.		96 ft.
4	MCRW-SD10	Raceway Side Divider– 10 ft. Snaps onto either side of raceway base rails for proper power and data separation per UL/CSA.		120 ft.
5	MCRX-ENT	Entrance End Fitting – To enter InfoStream raceway. Includes conduit knockouts on back and top of fitting to allow for entry from ceiling or through wall. Knockout sizes: 3/4", 1", 1-1/4", 1-3/4", 2", and 2-1/2"	1	20
6	MCRX-RDB	Raised Device Bracket Fitting- high capacity communication bracket used to mount single gang faceplates. - Allows for additional wire fill space and additional device clearance.	10	160
7	MCRX-REB	Raised Electrical Bracket Fitting - Used to mount NEMA standard single gang electrical faceplates. - Allows for additional low-voltage wire fill space.	5 10	140 120
8	MCRX-BS	Base Splice – Joins 2 sections of raceway base	10	250
9	MCRX-CDB	Communications Device Bracket – Used to mount single gang faceplates for communications devices - cover splice required for proper use.	10	80
10	MCRX-CS	Cover Splice – Joins 2 sections of raceway cover and required with use of CDB, EDB, and OB device brackets.	10	500
11	MCRX-EC	End Cap – Completes raceway or provides transition for 1/2", 3/4" and 1" conduit	1	80
12	MCRX-EDB	Electrical Device Bracket – Used to mount NEMA standard single gang electrical faceplates - cover splice required for proper use.	10	120
13	MCRX-EE	External Elbow – Joins raceway at 90° outside corner	1	16
14	MCRX-FE	Flat Elbow – Joins raceway at 90° flat angle	1	24
15	MCRX-IE	Internal Elbow – Joins raceway at 90° inside corner	1	16
16	MCRX-OB	Offset Box – Option for communications devices in raceway and electrical outlets on side	1	20
17	MCRX-OE	Offset Elbow – For small wall offsets between 2"-6". Used in conjunction with piece of raceway. Corner filler included for a flush appearance.	1	10
18	MCRX-TE	Tee Fitting – Joins 3 sections of raceway and includes divider	1	15
19	MCR-LTD	Tee Fitting Divider – Divides power & communications cables on the opposite side		
20	MCRX-TF	Transition Fitting – Knockouts are provided for TSR1, TSR2, and TSR3 Surface Raceway	1	24
21	MCRX-PTF	Power Transition Fitting - Knockouts are provided for TSRP1, TSRP2, and TSRP3 Surface Raceway.		
22	MCRG-TM	Tie Mount – Keeps wire & cable bundled. Accepts standard HellermannTyton cable ties T18-T50	100	4000
22	MCRG-WR	Wire Retainer – Keeps wire & cable in place.	10	800

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

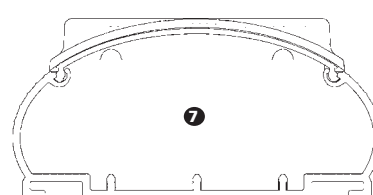
INFOSTREAM™ — MULTI-CHANNEL RACEWAY



Base and Cover with No Devices



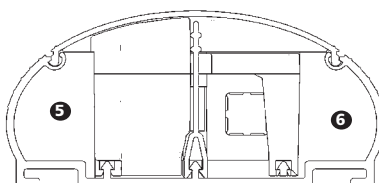
Data Only Using Communications Device Bracket (CDB)



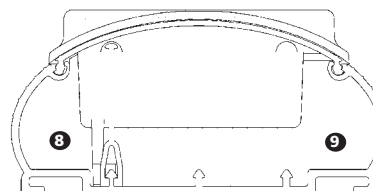
Data Only using Raised Bracket (RDB)



Offset Box (OB)



Power and Data Inline (EDB, CDB)



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

InfoStream™ Wire Fill Chart

LOW VOLTAGE			Raceway Area of Raceway		Channel 1 6.40in ²	Channel 2 1.220in ²	Channel 3 4.260in ²	Channel 4 3.060in ²	Channel 5 1.000in ²	Channel 6 1.150in ²	Channel 7 5.880in ²	Channel 8 0.800in ²	Channel 9 2.450in ²	
Wire Type	Wire Size	OD of Wire	Spec	Max	Spec	Max	Spec	Max	Spec	Max	Spec	Max	Spec	Max
Twisted Pair 24 AWG Unshielded	2 Pr.	0.140	166	249	31	47	110	166	79	119	25	38	29	44
	3 Pr.	0.150	144	217	27	41	96	144	69	103	22	33	26	39
	4 Pr. Cat 5e	0.217	69	103	13	19	46	69	33	49	10	16	12	18
	4 Pr. Cat 6	0.240	56	84	10	16	37	56	27	40	8	13	10	15
	25 Pr.	0.410	19	29	3	5	12	19	9	13	3	4	3	5
Coax	RG58/U	0.193	87	131	16	25	58	87	41	62	13	20	15	23
	RG59/U or RG62/U	0.242	55	83	10	15	37	55	26	39	8	13	10	15
	RG6/U	0.270	44	67	8	12	29	44	21	32	6	10	8	12
Fiber Optic FA Jacket OFNP	2 Strand	0.175	106	159	20	30	70	106	50	76	16	24	19	28
	4 Strand	0.185	95	142	18	27	63	95	45	68	14	22	17	25
	6 Strand	0.210	73	110	14	21	49	73	35	53	11	17	13	19
Fiber Optic 62.5/125/900 PVC Jacket OFNR	2 Strand	0.175	106	159	20	30	70	106	50	76	16	24	19	28
	4 Strand	0.185	95	142	18	27	63	95	45	68	14	22	17	25
	6 Strand	0.210	73	110	14	21	49	73	35	53	11	17	13	19
	8 Strand	0.230	61	92	11	17	41	61	29	44	9	14	11	16
	10 Strand	0.250	52	78	9	14	34	52	24	37	8	12	9	14
Electrical Wire	14 AWG THHN	0.105		30		21		-		17		-		27
	12 AWG THHN	0.122		25		15		-		12		-		22
	10 AWG THHN	0.153		19		9		-		8		-		17

Formula used to calculate communications wire fill capacity - Numbers of wires = duct / {1/4 x 3.14 x (wire o.d.)²} 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

Detailed information on all HellermannTyton raceway products, including drawings, specifications, installation instructions and an interactive bill of materials can be found on: www.myhtnetwork.com



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