

Type(s) Project Date Notes

ColorSource Raceway meets the needs of LED lighting installations while reducing motor load requirements for stage electrics. Its lightweight aluminum construction makes ColorSource Raceway a perfect companion for ETC Prodigy P2 hoist systems and was designed with data distribution, LED loads, and flexible installation in mind.

APPLICATIONS

- Educational theatres
- Town halls
- Community theatres
- Mixed use spaces
- Black box theatres
- Houses of worship
- Convention centers
- Hotel ballrooms

REGULATORY AND COMPLIANCE

- cULus Listed to UL 1573 and CSA C22.2 No. 166
- CE Compliant

FEATURES

- Extruded aluminum raceway with die cast aluminum connector plates
- Available in lengths up to 22 m, in 305 mm increments
- WebPipe Batten - Extruded aluminum fixture hanging pipe with internal webbing reinforcement. Can support 68 kg over a 3.05 m span
- Lightweight with raceway and pipe combined weight of 6 kg/m
- Ships fully wired and folded in 1.8 m lengths with all splicing hardware
- Supports a wide range of plug connectors and Ethernet or DMX data distribution
- Optional LED work lights integrate into hanger brackets
- Wide variety of mounting and hanger brackets available
 - Includes brackets suitable for mounting to rigging, catwalks, vertical positions, pipe grids, walls and ceilings

ORDERING INFORMATION

Connector Strips

Prefix	Length - number of segments ¹	Quantity of performance lighting connectors ²	Connector Type (flush mount only)	Quantity of input circuits ³	Low voltage connectors ⁴	Terminal box location ⁵ and type	Hanger type ⁶
CSR	L	(Q)	C	/#	(#X) (1N) (#WL)	T	H
Designates a ColorSource Raceway connector strip	Strip length ¹ Length includes 305 mm term box. e.g. a CSR49- will contain a term box and 48 segments for connectors.	1,2,3.. ² Raceway supports 1 or 2 connector plates per segment for performance lighting, DMX Active Pass-Thru, Ethernet, or work light driver connectors	(TR) powerCON TRUE1 TOP™ (15A) 15A UK Round Pin (Tenby) (13A) 13A UK Square Pin (CEE) 16A Ceeform (SCH-G) 16A SCHUKO-G (SCH-F) 16A SCHUKO-NF	1,2,3,4,5, or 6 ³ Indicates the quantity of circuits wired to the connector type. The total number of input circuits for all performance lighting connectors must not exceed six.	(#X) - Quantity of DMX Outputs (24 max) (1N) - Ethernet jack (1 max) (#WL) - Quantity of work light kits; include LED work light and driver connector plate ⁴ Raceway supports one data input, either DMX or Ethernet	(RT) Right Terminals (RC) Right Connectorized (LT) Left Terminals (LC) Left Connectorized ⁵ Relative to the Raceway when facing the outlets	(111) Wall/ Ceiling (115) Grid/ Studio (119) Prodigy FlyPipe (121) Suspension (122) Suspension (term box) (123) Threaded Rod Accessory (126) Double Pipe Suspension (127) Double Pipe Suspension (term box) (128) RACA Suspension (129) RACA Suspension (term box) (134) Catwalk ⁶ See Hanger bracket options on page 3 to select your bracket

SINGLE CONNECTOR TYPE MODEL NUMBERING

A basic model number for a single connector type on the entire strip. It reads: CSR Length - (Quantity of Connector with Connector Type/ number of input circuits) - Terminal location - Hanger bracket type.

Example: **CSR30-(12CEE/6)(12X)(4WL)-RC-121**. This is a Raceway with 29 connector segments (~10 m long), 12x16 A Ceeforms wired on six circuits, 12xDMX out, 4x worklights, power and data input connectors located on the righthand end of the strip and type 121 hanger brackets for use with a hoist like the Prodigy P2.

MULTIPLE CONNECTOR TYPE MODEL NUMBERING

Strips with multiple connector types use the same format with multiple connector types identified. Separate each connector type with brackets. Enter power connectors first, then data connectors, then work lights.

Example: **CSR50-(20TR/5)(4CEE/1)(24X)(2WL)-L-121**. This is a Raceway with 49 connector segments (~15.25 m long), 20 powerCON TRUE1 TOP outlets wired on five circuits, four 16A Ceeforms wired on one circuit, 24 DMX Active Pass-thru connectors, two integrated work lights, terminals on the left, and type 121 hanger brackets.

Batten pipes are not included. ETC WebPipe Batten or other pipe must be ordered separately.



SPECIFICATIONS

FUNCTIONAL

- Raceway available in lengths from 0.61–22 m in 305 mm increments, lengths include 305 mm terminal box
- Terminal box can be configured for hard wired or pluggable power and data input
- Each 305 mm section supports two connector plates that can contain power, data or blank connectors
- Active DMX pass-thru, supports up to 32 DMX/RDM devices connected to a single Raceway
- Supports USITT DMX512-A (ANSI E1.11) and RDM (ANSI E1.20-Remote Device Management)
- Supports 48.3 mm outside-diameter aluminum WebPipe batten by ETC or standard schedule 40 iron pipe batten

Available mounting hardware for suspension, wall, ceiling, pipe grid, and catwalk mounting applications

MECHANICAL

- Raceway:
 - Available in lengths from 0.61–22 m in 305 mm increments, lengths include 305 mm terminal box
 - Raceway constructed of 1.6 mm extruded aluminum
 - Connector plates and frames constructed of 3 mm diecast aluminum
 - Hanger brackets are constructed of ASTM A5008 steel conforming to ISO 898-1 class 8.8 and available for attachment to rigging, catwalks, vertical positions, pipe grids, walls, and ceilings
 - All parts are finished in fine-textured, black powder coat paint (white and other colors available as custom options with additional cost and lead time)
 - Circuits are labeled above each connector with 15 mm reverse silk screened lexan labels.
 - 127 mm H x 45 mm D outside dimensions, terminal box is 127 mm H x 77.7 mm
 - Weighs 3.7 kg/m when wired
 - Ships fully wired and folded in 1.8 m lengths with all splicing hardware
- Optional Aluminum WebPipe Batten:
 - 48.3 mm outside diameter extruded aluminum pipe with vertical web
 - Pipe wall and web constructed of 3.8 mm aluminum finished in black or clear hard coat anodization
 - Weighs 2.2 kg/m
 - Supports a maximum distributed load of 68 kg over a 3.05 m span
 - Supports a maximum point load of 29 kg on a 3.05 m span
 - Designed to a 10:1 safety factor

ELECTRICAL

- Connector strips support 120–240 VAC 50/60 Hz power inputs with support for multiple outputs per input
- Wire entry utilizes a terminal box with support for up to eight 20 A inputs utilized for:
 - Up to six circuits for power distribution along the length of the connector strip for performance lighting
 - One circuit dedicated for work lights
 - One circuit dedicated for DMX Active Pass-thru connectors (Pass-thru connectors can also be powered from one of the six performance lighting circuit terminals if necessary)
- Screwless tension clamp terminals for power input accept 0.5–6 mm² wire for lighting circuits, 0.5 mm²–4 mm² for optional work light and DMX Active Pass-thru circuits
- Support for Belden 9729 (or equal) or standard Category cable DMX/RDM input
- Power output receptacles available in any combination of connectors on a single strip using the following receptacles:
 - powerCON TRUE1 TOP
 - 15 A UK Round Pin (Tenby)
 - 13 A UK Square Pin
 - 16 A Ceeform
 - 16 A SCHUKO-G CEE 7/3
 - 16 A SCHUKO-NF CEE 7/5
- Available data outlets support one of the following options per raceway:
 - Up to 24 5-pin XLR DMX Active Pass-thru connectors with RDM
 - One RJ45 Ethernet port
 - One passive 5-pin XLR DMX output
- Optional worklight integrates via driver mounted in a connector plate and attaches directly to compatible hanger brackets
 - 1,600 lumen, 3000 K CCT LED at 90 CRI, 60° beam angle
 - 25 W power consumption

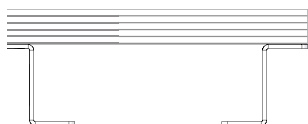
ACTIVE DMX PASS-THRU CONNECTORS

- Withstand fault voltages of up to 250 VAC
- Up to 24 DMX Active Pass-thru connectors supported on a single Raceway
- DMX/RDM device connections
 - Support up to 32 RDM devices connected on a single Raceway
 - DMX Active Pass-Thru connectors self-terminate

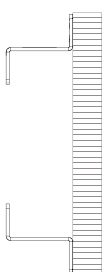
HANGER BRACKET TYPES

Type	Usage	Supports Batten	Supports Work Light
111	Wall or Ceiling mount	No	No
115	Variable Grid/ Studio mount	No	No
119	Prodigy FlyPipe mount	Yes	Yes
121	Wire Rope Suspension mount	Yes	Yes
122	Wire Rope Suspension mount for terminal box	Yes	Yes
123	Accessory to attach type 121/122/126/127 brackets to threaded rod or strut	-	-
126	Wire Rope Suspension mount (dual pipe)	Yes	Yes
127	Wire Rope Suspension mount for terminal box (dual pipe)	Yes	Yes
128	RACA Wire Rope Suspension mount	Yes	Yes
129	RACA Wire Rope Suspension mount for terminal box	Yes	Yes
134	Catwalk Railing mount	No	No

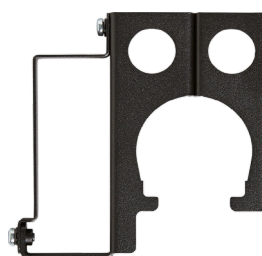
TYPE 111 (CEILING MOUNTED)



TYPE 111 (WALL MOUNTED)



TYPE 119



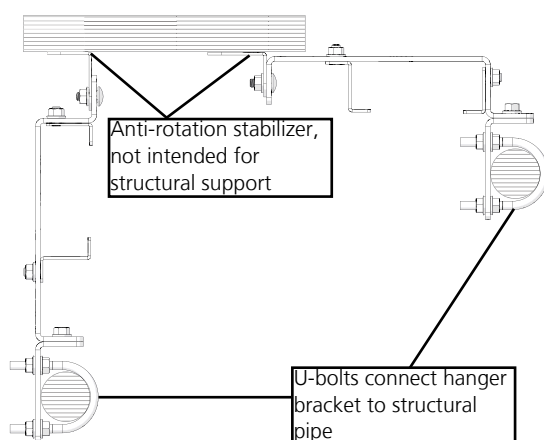
TYPE 134



TYPE 115



TYPE 115 APPLICATION



TYPE 121



TYPE 122



TYPE 123 ACCESSORY

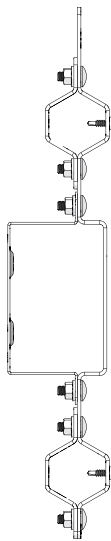


HANGER BRACKET TYPES

TYPE 126 SIDE



TYPE 127 SIDE



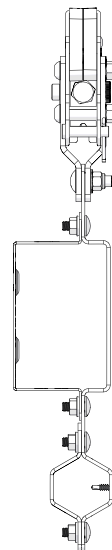
TYPE 128/129 FRONT



TYPE 128 SIDE

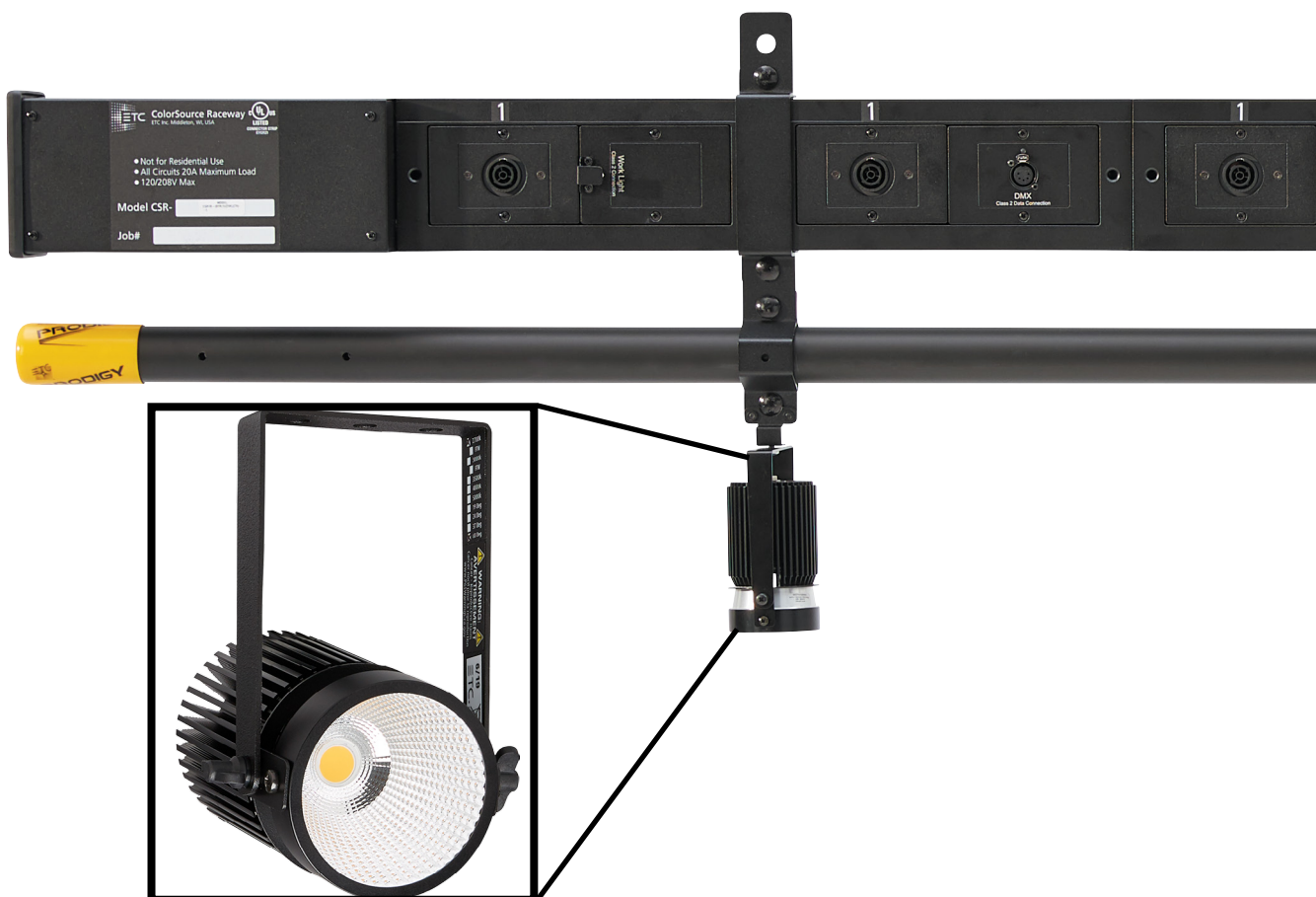


TYPE 129 SIDE



WORK LIGHT

ColorSource Raceway features an optional integrated LED work light. A simple on/off driver fits behind a standard Raceway faceplate. The work light provides 1,600 lumens, 3000 K CCT LED at 90 CRI with a 60° beam angle for maximum coverage. Each fixture requires only 25 W of power and there are dedicated terminals for a work light circuit in the termination box.



DMX ACTIVE PASS-THRU

LEDs have altered the entertainment lighting landscape, ColorSource Raceway provides a new solution for navigating that landscape with DMX Active Pass-thru outputs. With the need for data at every fixture location, these connectors turn your entire connector strip into an opto-splitter. Each DMX output is a self-terminating active split, eliminating the need for multiple DMX cables at each fixture and old fashioned DMX terminators. A single ColorSource Raceway can have up to (24) DMX Active Pass-thru outputs for DMX/RDM fixtures. Now you can take advantage of all the benefits of LED fixtures without the clutter, hassle, and maintenance of long DMX cables.



DMX Active Pass-thru outputs are fed by a low voltage power supply in the terminal box. This power supply can be fed by a switched or constant circuit. There are terminals for landing either a dedicated circuit or a jumper wire from a performance lighting circuit. If sharing power with a performance lighting circuit, that circuit must be powered on every time the Raceway is in use to ensure DMX transmission.

WEBPIPE BATTEN

ETC's innovative WebPipe Batten matches the standard outside diameter of schedule 40 batten pipes (48.3 mm) at a fraction of the weight. WebPipe battens are available in black or clear hard anodized finish.



ORDERING INFORMATION

7199A4010-20	WebPipe batten, black anodized, 6 m (20 ft)
7199A4009-20	WebPipe batten, clear anodized, 6 m (20 ft)
7199A2020	WebPipe batten splice kit

LOADING INFORMATION

Unsupported Span	Maximum Distributed Load	Maximum Point Load	Maximum Deflection at Center
3050 mm (10 ft)	68 kg (150 lb)	29 kg (65 lb)	17 mm (0.66 in)
2440 mm (8 ft)	79 kg (175 lb)	34 kg (75 lb)	13 mm (0.50 in)
1830 mm (6 ft)	95 kg (210 lb)	45 kg (100 lb)	9 mm (0.37 in)
1220 mm (4 ft)	113 kg (250 lb)	86 kg (190 lb)	6 mm (0.25 in)

Note: Support for the above loads requires proper installation of the WebPipe with the internal web positioned vertically.



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