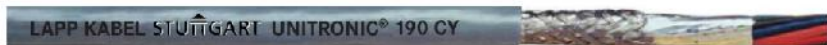


# UNITRONIC® 190/190 CY/190 CY (TP)

Multi-Conductor & Multi-Pair, 300V Flexible Industrial Signal & Control Cable; Unshielded & Shielded



## Unshielded Construction

**Conductors:** Finely stranded tinned copper  
**Insulation:** SR-PVC  
**Jacket:** Specially formulated PVC; gray

## Shielded Construction

**Conductors:** Finely stranded tinned copper  
**Pairs:** SR-PVC  
**Insulation:** SR-PVC  
**Shielding:** Foil tape and tinned copper braid (85% coverage); drain wire  
**Jacket:** Specially formulated PVC; gray

UNITRONIC® 190/190 CY is a multi-conductor cable for communication, signal, and control applications. It is designed for general purpose installations of electrical machinery. UNITRONIC® 190 CY has an overall foil tape & tinned copper braid for RFI & EMI protection. UNITRONIC® 190 CY (TP) is an overall shielded multi-paired version for data, communication, and signal applications.

## Recommended Applications

RS-232; data buses; process control instrumentation; low-voltage signaling and interconnect

## Application Advantage

- Extended temperature range of -40°C to 105°C
- UV-resistant jacket
- Sequential foot marking for ease of installation

## Approvals



Cable Attributes		page 640	
OIL	OR-02	FLAME	FR-03
MOTION	FL-01	MECH.	MP-01

Complete the Installation	
SKINTOP® Strain Relief	page 488
EPIC® Connectors	page 260

## Technical Data

<p> <b>Minimum Bend Radius:</b>                  - for installation: 4 x cable diameter                  - shielded: 6 x cable diameter</p> <p> <b>Temperature Range:</b>                  - for stationary use: -40°C to +105°C                  - for flexible use: -25°C to +105°C</p> <p> <b>Nominal Voltage:</b> 300V</p> <p> <b>Test Voltage:</b> 1500V</p> <p> <b>Conductor Stranding:</b> Fine wire</p>	<p> <b>Color Code:</b>                  - UNITRONIC® 190/190 CY: Chart 2, page 672                  - UNITRONIC® 190 CY (TP): Chart 3, page 672</p> <p> <b>Approvals:</b>                  UL: CMG per UL 444                  AWM 2661                  Attributes: UL Oil Res I                  -40°C Cold Bend; -25°C Cold Impact                  Sunlight Resistant                  NFPA 79                  NEC: Meets NEC Art. 725 &amp; 800                  Canada: cUL CMG FT4                  CSA AWM I/II A/B FT1                  Additional: RoHS</p>
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If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question. For current information go to our website.

UNITRONIC® 190

Part Number	Number of Conductors	Nominal Outer Diameter (in) (mm)		Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® Non-Metallic PG Thread	Part Number	Number of Conductors	Nominal Outer Diameter (in) (mm)		Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® Non-Metallic PG Thread
<b>28 AWG (0.08 mm²)</b>							<b>24 AWG (0.25 mm²)</b>						
602802	2	0.143	3.6	2	10	S1107	602402	2	0.161	4.1	3	19	S1107
602803	3	0.149	3.8	3	12	S1107	602403	3	0.168	4.3	4	22	S1107
602804	4	0.158	4.0	3	14	S1107	602404	4	0.179	4.5	7	27	S1107
602805	5	0.168	4.3	4	16	S1107	602405	5	0.192	4.9	8	31	S1107
602807	7	0.178	4.5	5	18	S1107	602407	7	0.205	5.2	11	37	S1107
602808	8	0.189	4.8	5	20	S1107	602408	8	0.219	5.6	12	42	S1107
602810	10	0.213	5.4	6	23	S1107	602410	10	0.249	6.3	15	51	S1109
602815	15	0.248	6.3	9	29	S1109	602415	15	0.290	7.4	22	69	S1111
602820	20	0.269	6.8	11	36	S1109	<b>22 AWG (0.34 mm²)</b>						
602825	25	0.297	7.5	15	43	S1111	602202	2	0.179	4.5	5	15	S1107
602850	50	0.375	9.5	28	73	S1111	602203	3	0.187	4.7	9	19	S1107
<b>26 AWG (0.14mm²)</b>							602204	4	0.200	5.1	11	22	S1107
602603	3	0.157	4.0	4	13	S1107	602205	5	0.214	5.4	14	26	S1107
602605	5	0.178	4.5	6	17	S1107	602207	7	0.229	5.8	18	33	S1107
602607	7	0.190	4.8	7	21	S1107	602208	8	0.245	6.2	20	37	S1107
602610	10	0.229	5.8	9	28	S1107	602210	10	0.279	7.1	23	45	S1111
602620	20	0.290	7.4	18	45	S1111	602212	12	0.297	7.5	29	62	S1111
602625	25	0.321	8.2	23	54	S1111	602220	20	0.355	9.0	46	78	S1111
602636	36	0.366	9.3	32	72	S1111	602225	25	0.409	10.4	57	95	S1113
							602236	36	0.459	11.7	81	138	S1113

UNITRONIC® 190 CY

Part Number	Number of Conductors	Nominal Outer Diameter (in) (mm)		Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread	Part Number	Number of Conductors	Nominal Outer Diameter (in) (mm)		Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread
<b>26 AWG (0.14mm²)</b>							<b>22 AWG (0.34 mm²)</b>						
602603S	3	0.192	4.9	10	24	53112210	602202S	2	0.204	5.2	13	31	53112210
602604S	4	0.202	5.1	11	29	53112210	602203S	3	0.212	5.4	15	34	53112210
602607S	7	0.225	5.7	15	35	53112210	602204S	4	0.225	5.7	18	37	53112210
602608S	8	0.237	6.0	16	37	53112210	602205S	5	0.239	6.1	22	42	53112210
602610S	10	0.264	6.7	20	44	53112210	602207S	7	0.254	6.5	28	51	53112210
602615S	15	0.301	7.6	26	53	53112220	602208S	8	0.270	6.9	30	55	53112210
602620S	20	0.325	8.3	30	64	53112220	602210S	10	0.314	8.0	36	66	53112220
<b>24 AWG (0.25 mm²)</b>							602215S	15	0.349	8.9	49	84	53112220
602403S	3	0.203	5.2	12	31	53112210	602216S	16	0.354	9.0	52	88	53112220
602404S	4	0.214	5.4	14	34	53112210	602220S	20	0.380	9.7	62	104	53112230
602405S	5	0.227	5.8	16	38	53112210	602225S	25	0.440	11.2	79	132	53112240
602407S	7	0.240	6.1	20	44	53112210	602236S	36	0.490	12.4	108	174	53112240
602408S	8	0.254	6.5	22	49	53112210	602240S	40	0.505	12.8	119	187	53112240
602410S	10	0.284	7.2	27	53	53112220							
602415S	15	0.325	8.3	35	66	53112220							
602420S	20	0.352	8.9	44	79	53112220							
602425S	25	0.386	9.8	52	95	53112230							

UNITRONIC® 190 CY (TP)

Part Number	Number of Pairs	Nominal Outer Diameter (in) (mm)		Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread	Part Number	Number of Pairs	Nominal Outer Diameter (in) (mm)		Copper Weight (lbs/mft)	Approx. Weight (lbs/mft)	SKINTOP® MS-SC PG Thread
<b>24 AWG (0.25 mm²)</b>							<b>22 AWG (0.34 mm²)</b>						
602402TP	2	0.254	6.5	17	35	53112210	602202TP	2	0.270	6.9	22	42	53112210
602404TP	4	0.285	7.2	24	48	53112220	602203TP	3	0.294	7.5	27	51	53112220
602405TP	5	0.305	7.7	28	55	53112220	602204TP	4	0.315	8.0	33	57	53112220
602408TP	8	0.360	9.1	40	77	53112220	602205TP	5	0.338	8.6	38	68	53112220
							602206TP	6	0.363	9.2	45	79	53112220

Recommended SKINTOP® assumes minimal OD variance. Additional configurations are available; please see our SKINTOP® section. If not otherwise specified, all values relating to the product are nominal values. For current information go to our website.