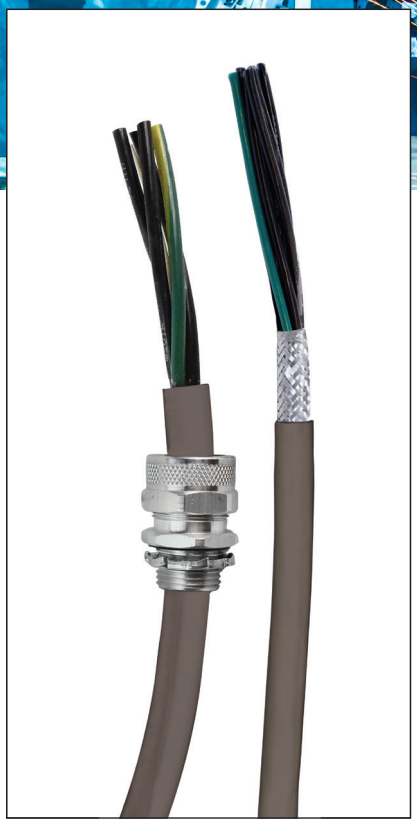

Applications found within industrial automation:

- Control
- I/O circuitry
- Sensors
- Switches
- Low voltage signal applications

HY-TREX® CONTROL & INSTRUMENTATION CABLES

Flexible and oil resistant Control and Instrumentation Cables are designed to provide long-life performance in static and flexing applications that are subject to extreme temperature and mechanical abuses. Ideal for original equipment manufacturers, automation integrators, instrumentation, and robotics.

The HY-TREX® CI500 Series is UL recognized, and UL listed for use in cable trays (Type TC-ER). Available in 18 AWG to 14 AWG, up to 25 conductors standard, and 12 – 10 AWG, up to 9 conductors standard.

CONSTRUCTION

CENTER CORE: Center core filler to reduce mechanical stress on the cable
**on certain part numbers as required*

FABRIC SEPARATOR: Eases stripping of cable jacket

CONDUCTORS: Bare copper, Class K 30 AWG strand

INSULATION: Special Formulation TPE compound

COLOR-CODE: Black conductors with alphanumeric ID green or green/yellow ground

SHIELD: Tinned copper braid, 85% coverage

JACKET: TPE compound -grey

RATINGS / APPROVALS

VOLTAGE: 600V TC-ER/1000V WTTC

MAX CONDUCTOR TEMP:
90°C Dry / 75°C Wet

FLAME: FT4

UL: TC-ER per UL 1277
WTTC per UL 2277
AWM per UL 758
MTW per UL 1063

cUL: CIC-TC per CSA 22.2 No. 239

NEC:
Suitable for Class I,
Division 2 per Article 501

PERFORMANCE

BEND RADIUS STATIC:
6x cable outer diameter

BEND RADIUS DYNAMIC:
8x cable outer diameter

COLD BEND: -25°C

COLD IMPACT: -25°C

OIL RESISTANCE: Oil Resistant I

Specifications subject to change. For complete specifications and availability, ask your TPC Sales Representative or call 800-521-7935.

CONTROL & INSTRUMENTATION CABLES // CI500 SERIES // SHIELDED

PART NO.	NUMBER OF CONDUCTORS	COND SIZE		STRANDING	NOM O.D. (in.)	WEIGHT (LBS/1000')	BEND RADIUS (in)	GLAND* P/N
		AWG	EQUIV (mm^2)					
CI500-018-3C-GY-S	3	18	0.75	19/30	0.327	91	2.7	55002/55003
CI500-018-4C-GY-S	4	18	0.75	19/30	0.350	106	2.8	55002/55003
CI500-018-5C-GY-S	5	18	0.75	19/30	0.378	121	3.1	55002/55004
CI500-018-7C-GY-S	7	18	0.75	19/30	0.406	144	3.3	55002/55004
CI500-018-9C-GY-S	9	18	0.75	19/30	0.472	188	3.8	55004
CI500-018-12C-GY-S	12	18	0.75	19/30	0.547	245	4.4	55005/55006
CI500-018-18C-GY-S	18	18	0.75	19/30	0.626	327	5.1	55006
CI500-018-25C-GY-S	25	18	0.75	19/30	0.736	445	5.9	55007/55008
CI500-016-3C-GY-S	3	16	1.5	26/30	0.354	107	2.9	55002/55003
CI500-016-4C-GY-S	4	16	1.5	26/30	0.382	126	3.1	55002/55004
CI500-016-5C-GY-S	5	16	1.5	26/30	0.409	145	3.3	55002/55004
CI500-016-7C-GY-S	7	16	1.5	26/30	0.441	174	3.6	55004
CI500-016-9C-GY-S	9	16	1.5	26/30	0.547	245	4.4	55005/55006
CI500-016-12C-GY-S	12	16	1.5	26/30	0.598	298	4.8	55005/55006
CI500-016-18C-GY-S	18	16	1.5	26/30	0.685	403	5.5	55007
CI500-016-25C-GY-S	25	16	1.5	26/30	0.811	550	6.5	55008
CI500-014-3C-GY-S	3	14	2.5	41/30	0.386	135	3.1	55002/55004
CI500-014-4C-GY-S	4	14	2.5	41/30	0.417	159	3.4	55002/55004
CI500-014-5C-GY-S	5	14	2.5	41/30	0.453	185	3.7	55004
CI500-014-7C-GY-S	7	14	2.5	41/30	0.488	226	3.9	55004
CI500-014-9C-GY-S	9	14	2.5	41/30	0.606	318	4.9	55005/55006
CI500-014-12C-GY-S	12	14	2.5	41/30	0.661	387	5.3	55006/55007
CI500-014-18C-GY-S	18	14	2.5	41/30	0.764	534	6.2	55007/55008
CI500-014-25C-GY-S	25	14	2.5	41/30	0.945	770	7.6	55009/55010
CI500-012-3C-GY-S	3	12	4.0	65/30	0.433	177	3.5	55004
CI500-012-4C-GY-S	4	12	4.0	65/30	0.472	211	3.8	55004
CI500-012-5C-GY-S	5	12	4.0	65/30	0.512	247	4.1	55004/55006
CI500-012-7C-GY-S	7	12	4.0	65/30	0.591	328	4.8	55005/55006
CI500-012-9C-GY-S	9	12	4.0	65/30	0.693	436	5.6	55007
CI500-010-3C-GY-S	3	10	6.0	105/30	0.508	248	4.1	55004/55006
CI500-010-4C-GY-S	4	10	6.0	105/30	0.583	317	4.7	55005/55006
CI500-010-5C-GY-S	5	10	6.0	105/30	0.634	375	5.1	55006/55007
CI500-010-7C-GY-S	7	10	6.0	105/30	0.697	474	5.6	55007
CI500-010-9C-GY-S	9	10	6.0	105/30	0.866	666	7.0	55008/55009

Specifications subject to change. For complete specifications and availability, ask your TPC Sales Representative or call 800-521-7935.

PART NO.	NUMBER OF CONDUCTORS	COND SIZE		STRANDING	NOM O.D. (in.)	WEIGHT (LBS/1000')	BEND RADIUS (in.)	GLAND* P/N
		AWG	EQUIV (mm^2)					
CI500-018-3C-GY-U	3	18	0.75	19/30	0.311	57	2.5	55001/55003
CI500-018-4C-GY-U	4	18	0.75	19/30	0.331	68	2.7	55002/55003
CI500-018-5C-GY-U	5	18	0.75	19/30	0.358	85	2.9	55003/55004
CI500-018-7C-GY-U	7	18	0.75	19/30	0.386	99	3.1	55002/55003 /55004
CI500-018-9C-GY-U	9	18	0.75	19/30	0.449	130	3.6	55004
CI500-018-12C-GY-U	12	18	0.75	19/30	0.500	162	4.0	55004/55005
CI500-018-18C-GY-U	18	18	0.75	19/30	0.618	242	5.0	55005/55006
CI500-018-25C-GY-U	25	18	0.75	19/30	0.720	314	5.8	55007
CI500-016-3C-GY-U	3	16	1.5	26/30	0.339	69	2.8	55003
CI500-016-4C-GY-U	4	16	1.5	26/30	0.365	85	3.0	55002
CI500-016-5C-GY-U	5	16	1.5	26/30	0.386	102	3.1	55002
CI500-016-7C-GY-U	7	16	1.5	26/30	0.425	124	3.4	55004
CI500-016-9C-GY-U	9	16	1.5	26/30	0.496	164	4.0	55004/55005 /55006
CI500-016-12C-GY-U	12	16	1.5	26/30	0.579	207	4.7	55006
CI500-016-18C-GY-U	18	16	1.5	26/30	0.661	302	5.3	55006/55007
CI500-016-25C-GY-U	25	16	1.5	.0 26/30	0.791	388	6.4	55008
CI500-014-3C-GY-U	3	14	2.5	41/30	0.384	88	3.1	55002
CI500-014-4C-GY-U	4	14	2.5	41/30	0.394	109	3.2	55002
CI500-014-5C-GY-U	5	14	2.5	41/30	0.437	132	3.5	55004
CI500-014-7C-GY-U	7	14	2.5	41/30	0.476	172	3.9	55004/55005
CI500-014-9C-GY-U	9	14	2.5	41/30	0.591	231	4.8	55006
CI500-014-12C-GY-U	12	14	2.5	41/30	0.646	296	5.2	55006/55007
CI500-014-18C-GY-U	18	14	2.5	41/30	0.740	416	6.0	55007
CI500-014-25C-GY-U	25	14	2.5	41/30	0.929	574	7.5	55009/55010
CI500-012-3C-GY-U	3	12	4.0	65/30	0.417	118	3.4	55004
CI500-012-4C-GY-U	4	12	4.0	65/30	0.452	149	3.7	55004
CI500-012-5C-GY-U	5	12	4.0	65/30	0.500	182	4.0	55004/55005 /55006
CI500-012-7C-GY-U	7	12	4.0	65/30	0.575	260	4.6	55006
CI500-012-9C-GY-U	9	12	4.0	65/30	0.677	354	5.5	55007/55008
CI500-010-3C-GY-U	3	10	6.0	105/30	0.492	175	4.0	55004/55005 /55006
CI500-010-4C-GY-U	4	10	6.0	105/30	0.576	243	4.7	55006
CI500-010-5C-GY-U	5	10	6.0	105/30	0.619	304	5.0	55006
CI500-010-7C-GY-U	7	10	6.0	105/30	0.681	388	5.5	55007/55008
CI500-010-9C-GY-U	9	10	6.0	105/30	0.807	530	6.5	55008/55009

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