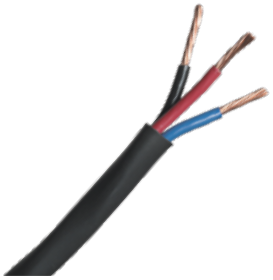
Paige
WATER & OUTDOOR
A GCG COMPANY

P7267D
Control or Instrumentation Cable (8AWG-500MCM)



1.0 SCOPE

1.1 Description

1.1.1 Type TC-ER cables constructed in two, three or four conductors have a PVC/Nylon insulation with an overall gas and oil resistant PVC jacket.

1.2 Standards Compliance

1.2.1 UL Listed as TC-ER-JP per UL Standard 1277* Rated -39°C to 90°C, OSHA Acceptable NEC Articles 392 & 336, CSA FT4, IEEE 1202 70,000 BTU Flame Test, ASTM - All Applicable Standards

2.0 CONSTRUCTION

2.1 Conductor

2.1.1 Material: Bare, soft annealed copper per ASTM B-3
SIZES 8 THROUGH 2 AWG
Concentric stranded, class B (7 strands)
ASTM B-8 and UL-83 table 4.1

SIZES 250 THROUGH 500MCM
Concentric stranded, class B (37 strands)
ASTM B-8 and UL-83 table 4.1

2.1.2 Conductor Jacket: Nylon

2.1.3 Thickness: Per UL 83 table 13 for THHN/THWN

2.2 Construction: Stranded

2.2.1 Cabeling: SIZES 8 THROUGH 4/0 AWG
Three or more conductors are assembled round with fillers as needed. A tape binder is applied over the assembly. Two conductors are assembled flat parallel (round, with fillers as needed, is available upon request.)

SIZES 250 THROUGH 500 MCM
Conductors are assembled round with fillers as needed. A tape binder is applied over the assembly.

2.3 Insulation

2.3.1 Material: PVC, Thickness: UL-83 table 13.1 (THWN 75°C) UL-83 table 14.1 (THHN 90°C) Thickness: UL-83 table 21.5

2.3.2 Armor: Nylon UL-83 paragraph 35.1, Thickness: UL-83 table 21.5

2.4 Outer Jacket:

2.4.1 Polyvinyl chloride UL-62 part 22 class 12 Thickness specified herein

2.4.2 Markings: (size) AWG Type TC THHN or THWN cdrs. Sunlight Resistant 600V (UL) Direct Burial. Indent print on other side of jacket (number of conductors).

2.6 Electrical properties

2.6.1 Maximum Voltage: 600V

2.7 Temperature Rating

2.7.1 90°C dry, 75°C wet

CONDUCTOR DATA

Size (AWG or MCM)	STRANDS NO/O.D. (INCHES)	PVC INSUL. (INCHES)	NYLON ARMOR (INCHES)	APPROX. O.D. (INCHES)	Size (AWG or MCM)	STRANDS NO/O.D. (INCHES)	PVC INSUL. (INCHES)	NYLON ARMOR (INCHES)	APPROX. O.D. (INCHES)
8	7/.0295	.030	.005	.224	3/0	19/.0940	.050	.007	.600
6	7/.0372	.030	.006	.262	4/0	19/.1055	.050	.007	.655
4	7/.0469	.040	.006	.335	250	37/.0822	.060	.008	.730
2	7/.0591	.040	.006	.395	300	37/.0900	.060	.008	.785
1	19/.0664	.050	.007	.460	350	37/.0973	.060	.008	.835
1/0	19/.0745	.050	.007	.500	400	37/.1040	.060	.008	.880
2/0	19/.0837	.050	.007	.545	500	37/.1162	.060	.008	.965

(Continued on next page)

908-687-7810
paigewater.com

200 Sheffield Street, Suite 302
Mountainside, NJ 07092

The information and specifications described herein are subject to error or omission and to change without notice. Paige provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Paige be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Paige has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.
© 2026 Paige Electric Company, LP. All Rights Reserved. Released 09/26

Paige
WATER & OUTDOOR
A GCG COMPANY

P7267D Control or Instrumentation Cable (8AWG-500MCM) Cont.

	8AWG			6AWG			4AWG			2AWG			1AWG		
# of CRDS	OVERALL JACKET THICKNESS (MILS)	APPROX. OUTSIDE DIAMETER (INCHES)	APPROX. WEIGHT 1000 FT. (POUNDS)	OVERALL JACKET THICKNESS (MILS)	APPROX. OUTSIDE DIAMETER (INCHES)	APPROX. WEIGHT 1000 FT. (POUNDS)	OVERALL JACKET THICKNESS (MILS)	APPROX. OUTSIDE DIAMETER (INCHES)	APPROX. WEIGHT 1000 FT. (POUNDS)	OVERALL JACKET THICKNESS (MILS)	APPROX. OUTSIDE DIAMETER (INCHES)	APPROX. WEIGHT 1000 FT. (POUNDS)	OVERALL JACKET THICKNESS (MILS)	APPROX. OUTSIDE DIAMETER (INCHES)	APPROX. WEIGHT 1000 FT. (POUNDS)
2 Flat	60	.590 x .360	180	60	.660 x .400	255	60	.800 x .470	419	80	.970 x .57	587	80	1.10 x .64	789
2 Round	60	.590	216	60	.660	299	60	.800	434	80	.970	676	80	1.100	833
3	60	.620	283	60	.700	400	80	.900	653	80	1.030	948	80	1.100	1122
4	60	.680	352	60	.770	506	80	.990	828	80	1.130	1206	80	1.170	1562

	1/0AWG			2/0AWG			3/0AWG			4/0AWG		
# of CRDS	OVERALL JACKET THICKNESS (MILS)	APPROX. OUTSIDE DIAMETER (INCHES)	APPROX. WEIGHT 1000 FT. (POUNDS)	OVERALL JACKET THICKNESS (MILS)	APPROX. OUTSIDE DIAMETER (INCHES)	APPROX. WEIGHT 1000 FT. (POUNDS)	OVERALL JACKET THICKNESS (MILS)	APPROX. OUTSIDE DIAMETER (INCHES)	APPROX. WEIGHT 1000 FT. (POUNDS)	OVERALL JACKET THICKNESS (MILS)	APPROX. OUTSIDE DIAMETER (INCHES)	APPROX. WEIGHT 1000 FT. (POUNDS)
2 Flat	80	1.18 x .68	957	80	1.27 x .72	1141	80	1.37 x .78	1384	80	1.49 x .83	1691
2 Round	80	1.180	1099	80	1.270	1328	80	1.370	1619	80	1.490	1962
3	80	1.250	1436	80	1.350	1750	80	1.460	2120	80	1.590	2610
4	80	1.380	1850	80	1.380	2345	80	1.520	2750	110	1.820	3480

The data listed here is approximate and subject to normal manufacturing tolerances. Specifications are subject to change without notice.

	250MCM			300MCM			350MCM			400MCM			500MCM		
# of CRDS	OVERALL JACKET THICKNESS (MILS)	APPROX. OUTSIDE DIAMETER (INCHES)	APPROX. WEIGHT 1000 FT. (POUNDS)	OVERALL JACKET THICKNESS (MILS)	APPROX. OUTSIDE DIAMETER (INCHES)	APPROX. WEIGHT 1000 FT. (POUNDS)	OVERALL JACKET THICKNESS (MILS)	APPROX. OUTSIDE DIAMETER (INCHES)	APPROX. WEIGHT 1000 FT. (POUNDS)	OVERALL JACKET THICKNESS (MILS)	APPROX. OUTSIDE DIAMETER (INCHES)	APPROX. WEIGHT 1000 FT. (POUNDS)	OVERALL JACKET THICKNESS (MILS)	APPROX. OUTSIDE DIAMETER (INCHES)	APPROX. WEIGHT 1000 FT. (POUNDS)
2	110	1.459	2896	110	1.595	2609	110	1.910	3200	110	2.000	3308	110	2.170	4029
3	110	1.556	3190	110	1.762	3919	110	2.030	4150	110	2.130	4780	110	2.320	5980
4	110	1.784	4119	110	1.948	5012	110	2.250	5530	110	2.360	6278	110	2.570	7668

TO SPECIFY A SPECIFIC PART NUMBER ADD AWG SIZE, PLUS THE NUMBER OF CONDUCTORS TO THE PART NUMBER. FOR EXAMPLE: 3 CONDUCTORS, 8 AWG IS (P7267D)-8/3.

908-687-7810
paigewater.com
200 Sheffield Street, Suite 302
Mountainside, NJ 07092

The information and specifications described herein are subject to error or omission and to change without notice. Paige provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Paige be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Paige has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.
© 2026 Paige Electric Company, LP. All Rights Reserved. Released 09/26