

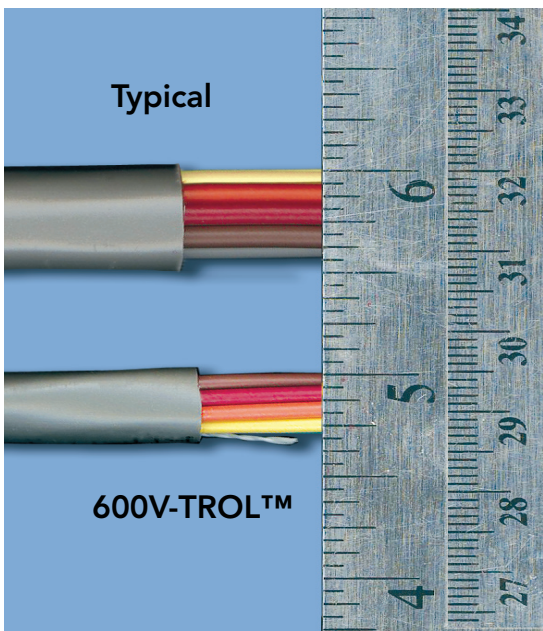


600V-TROL™

600 Volt Control Cables

Provides 60% Space Savings

These cables provide significant cost and space savings and will fit backshells of low-voltage connectors. This cable family is designed for 600V, 105C maximum ambient temperature, internal or external interconnection for industrial controls and instrumentation, HVAC controls, appliance controls, and mixed voltage/signal environments.



Cable Constructions

Cables are rated at 600 volt. Multiconductor constructions range from 2/C through 25/C. Conductors are stranded tinned copper, typically from 22 AWG through 14 AWG. Hybrid designs with multiple AWG conductors and multipair constructions could also be custom-made for your application.

The stranded conductors are insulated with 0.016 inch wall thickness of polyvinylchloride. The cable core has an overall clear polyester tape wrap and a general purpose chrome gray PVC jacket. A jacket ripcord is provided for easy jacket removal. Cables may be unshielded, contain shielded components, or have an overall shield.

The product is covered by UL appliance wiring material style 2586 and related Canadian Standards for appliance wiring. The cables comply with UL VW-1 and CSA FT-4 fire test requirements. They are also RoHS compliant.

Diameter and Size Comparison

Many competitive 600 volt control cables are insulated with twice the insulation thickness on each component wire. Thus, each insulated wire in a cable is significantly larger, quickly multiplying the overall cable diameter. Quabbin's thin-wall (0.016") 600 volt rated PVC insulation results in cable designs that are typically 60+% less in cross-sectional areas. The table below compares typical 600 volt constructions with Quabbin's reduced diameter designs.

Construction	Typical (0.032")	600V-TROL™ (0.016")	X-Section Saving
4/C 22 AWG	0.380	0.217	68%
9/C 22 AWG	0.490	0.293	64%
19/C 22 AWG	0.640	0.377	65%
4/C 18 AWG	0.420	0.253	64%
7/C 18 AWG	0.500	0.298	64%
19/C 18 AWG	0.720	0.452	61%
25/C 18 AWG	0.790	0.541	53%

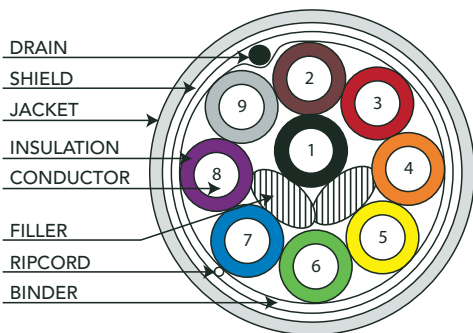
ROHS
Compliant



600V-TROL™ 600 Volt Shielded Multiconductor Cables



	Part Number	# of Conductors	Jacket Thickness		Nominal Diameter		1 K' Pkg Weight	
			inch	mm	inch	mm	Lbs	Kg
22 AWG 7/30 TC								
	0801	2	.032	.81	.194	4.93	22	10.0
	0802	3	.032	.81	.203	5.16	25	11.5
	0803	4	.032	.81	.220	5.59	30	13.5
	0804	5	.032	.81	.237	6.02	35	16.0
	0805	7	.032	.81	.256	6.50	44	20.0
	0806	9	.032	.81	.296	7.52	55	25.0
	0807	12	.032	.81	.321	8.15	67	30.5
20 AWG 7/28 TC								
	0811	2	.032	.81	.210	5.33	27	12.0
	0812	3	.032	.81	.221	5.61	32	14.5
	0813	4	.032	.81	.239	6.07	39	17.5
	0814	5	.032	.81	.259	6.58	46	21.0
	0815	7	.032	.81	.280	7.11	58	26.5
	0816	9	.032	.81	.326	8.28	72	32.5
	0817	12	.032	.81	.354	8.99	89	40.5
18 AWG 16/30 TC								
	0821	2	.032	.81	.224	5.69	37	17.0
	0822	3	.032	.81	.236	5.99	41	18.5
	0823	4	.032	.81	.256	6.50	49	22.0
	0824	5	.032	.81	.278	7.06	56	25.5
	0825	7	.032	.81	.301	7.65	74	33.5
	0826	9	.032	.81	.351	8.92	93	42.0
	0827	12	.032	.81	.382	9.70	115	52.0
	0828	15	.032	.81	.431	10.95	141	64.0
	0829	19	.032	.81	.455	11.56	170	77.0
	0830	25	.032	.81	.544	13.82	219	99.5
16 AWG 19/.0117 TC								
	0831	2	.032	.81	.246	6.25	45	20.5
	0832	3	.032	.81	.259	6.58	66	30.0
	0833	4	.032	.81	.283	7.19	68	31.0
	0834	5	.032	.81	.308	7.82	81	36.5
	0835	7	.032	.81	.334	8.48	104	47.0
	0836	9	.032	.81	.391	9.93	130	59.0
	0837	12	.032	.81	.426	10.82	163	74.0
	0838	15	.032	.81	.483	12.27	199	90.5
	0839	19	.032	.81	.510	12.95	243	110.0
	0840	25	.052	1.32	.651	16.54	339	154.0
14 AWG 41/30 TC								
	0841	2	.032	.81	.274	6.96	63	28.5
	0842	3	.032	.81	.289	7.34	79	36.0
	0843	4	.032	.81	.317	8.05	97	44.0
	0844	5	.032	.81	.345	8.76	116	52.5
	0845	7	.032	.81	.376	9.55	149	67.5
	0846	9	.032	.81	.442	11.23	187	85.0
	0847	12	.032	.81	.483	12.27	237	107.5
	0848	15	.032	.81	.548	13.92	290	131.5
	0849	19	.052	1.32	.620	15.75	379	172.0
	0850	25	.052	1.32	.737	18.72	488	221.5



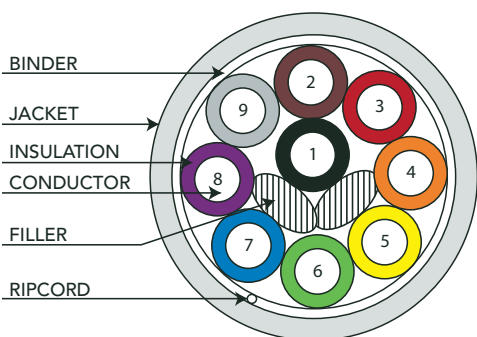
9 Conductor **Overall Shielded**
18 AWG Stranded Tinned Copper
Quabbin 0826



600V-TROL™ 600 Volt Unshielded Multiconductor Cables



	Part Number	# of Conductors	Jacket Thickness		Nominal Diameter		1 K' Pkg Weight		
			inch	mm	inch	mm	Lbs	Kg	
22 AWG 7/30 TC	0701	2	.032	.81	.191	4.85	18	8.0	
	0703	4	.032	.81	.217	5.51	27	12.0	
	0704	5	.032	.81	.234	5.94	32	14.5	
	0706	9	.032	.81	.293	7.44	51	23.0	
	0709	19	.032	.81	.377	9.58	93	42.0	
20 AWG 7/28 TC	0712	3	.032	.81	.218	5.54	28	12.5	
	0713	4	.032	.81	.236	5.99	35	16.0	
	0716	9	.032	.81	.323	8.20	67	30.5	
	0717	12	.032	.81	.351	8.92	85	38.5	
	0718	15	.032	.81	.395	10.03	104	47.0	
	0719	19	.032	.81	.417	10.59	126	57.0	
	0720	25	.032	.81	.498	12.65	163	74.0	
18 AWG 16/30 TC	0721	2	.032	.81	.221	5.61	27	12.0	
	0722	3	.032	.81	.223	5.92	35	16.0	
	0723	4	.032	.81	.253	6.43	43	19.5	
	0724	5	.032	.81	.275	6.99	52	23.5	
	0725	7	.032	.81	.298	7.57	68	31.0	
	0726	9	.032	.81	.348	8.84	85	38.5	
	0728	15	.032	.81	.428	10.87	133	60.5	
	0729	19	.032	.81	.452	11.48	163	74.0	
	0730	25	.032	.81	.541	13.74	212	96.0	
	16 AWG 19/.0117 TC	0733	4	.032	.81	.282	7.16	59	27.0
0734		5	.032	.81	.307	7.80	72	32.5	
0735		7	.032	.81	.334	8.48	95	43.0	
0736		9	.032	.81	.392	9.96	121	55.0	
0737		12	.032	.81	.427	10.85	153	69.5	
0738		15	.032	.81	.484	12.29	189	85.5	
0739		19	.032	.81	.512	13.01	233	105.5	
0740		25	.052	1.32	.654	16.61	328	149.0	
14 AWG 41/30 TC		0741	2	.032	.81	.271	6.88	49	22.0
		0742	3	.032	.81	.286	7.26	65	29.5
	0743	4	.032	.81	.314	7.98	83	37.5	
	0744	5	.032	.81	.342	8.69	101	46.0	
	0745	7	.032	.81	.373	9.47	134	61.0	
	0746	9	.032	.81	.439	11.15	172	78.0	
	0747	12	.032	.81	.480	12.19	221	100.0	
	0748	15	.032	.81	.545	13.84	274	124.5	
	0750	25	.052	1.32	.734	18.64	471	213.5	



9 Conductor **Unshielded**
18 AWG Stranded Tinned Copper
Quabbin 0726

600V-TROL™ 600 Volt Control Cable Reduced Diameter Design



Cable Design Benefits

Less insulation results in a smaller cable core diameter. This leads to less jacketing material being used. The result is a cable with significant cost and space savings. In addition, these cable designs have many other benefits:

- Combine signal and power in single enclosure
- Greater flexibility
- Lighter-weight constructions
- Easier to install
- Fit smaller connectors
- Improved conduit & duct fill
- Smaller harnesses and bundles
- Smaller bend diameters
- Simpler junction box and panel layout
- RoHS compliant

Applications

Quabbin Wire & Cable's reduced diameter 600V control cables offer designers and engineers a powerful tool to meet cost and application goals in many industrial applications:

- Air handling
- Auxiliary power generation
- Dust controls
- Factory automation
- Factory controls
- Heating curtains
- HVAC
- HVAC controls
- Lighting controls
- Oil & gas boilers/furnaces
- Remote monitoring
- Ventilation systems

Conductor Color Code

The following table defines the color codes used for Quabbin Wire's reduced diameter 600V multiconductor control cables. Where one color is shown, the conductor is insulated with this solid colored insulation. Where two or more colors are shown, the first color is the color of the insulation and the others define the colored stripes applied to the base color.

Conductor	Color	Conductor	Color	Conductor	Color
1	Black	10	White	19	White/Gray
2	Brown	11	White/Black	20	White/Black/Brown
3	Red	12	White/Brown	21	White/Black/Red
4	Orange	13	White/Red	22	White/Black/Orange
5	Yellow	14	White/Orange	23	White/Black/Yellow
6	Green	15	White/Yellow	24	White/Black/Green
7	Blue	16	White/Green	25	White/Black/Blue
8	Violet	17	White/Blue	26	White/Black/Violet
9	Gray	18	White/Violet		



10 Maple Street - Ware, MA 01082-1597
(800) 368-3311 or (413) 967-6281 / Fax (413) 967-7564
www.quabbin.com