

Section 4. Multi-Conductor



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Specifications subject to change. For complete specifications and availability visit www.lapptannehill.com

ÖLFLEX®



ÖLFLEX® CLASSIC 100 Flexible Power and Control Cable

Construction: Finely stranded bare copper conductors per VDE 0295, Class 5, IEC 60228 Cl.5.

Insulation: PVC. Conductors cabled with non-wicking fillers, dry lubricant.

Jacket: Gray PVC.

Features:

ÖLFLEX® CLASSIC 100 is a color coded, multi-conductor control and power cable for use in all electrical equipment in dry, damp or wet conditions. European color code for power. Conforms to CE standards. Available with inner jacket and tinned copper braid for EMI/RFI protection. Pressure extruded jacket for improved flexibility.

Applications:

Control systems, Assembly lines, Control panels, Data processing equipment and other European influenced machinery specifications.

Additional Information:

European color code for power. Conforms to CE standards. Available with inner jacket and tinned copper braid for EMI/RFI protection. Pressure extruded jacket for improved flexibility.

Technical Data:

Minimum Bend Radius:-for installation: 4 x cable diameter. -with shield: 6 x cable diameter.



Temperature:

• -40°C to +80°C



Rated Voltage:

• 300/500V (≤ 16 AWG)
• 450/750V (≥ 14 AWG)



Color Code:

• See chart 6



Approvals:

• Based on VDE specifications



Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km
(300/500 V)							6 AWG (128/26) 16 mm²						
21 AWG (16/32) 0.50 mm ²							0010302	3	.720	18.3	310	612	911
00100004	2	.189	4.8	7	28	35	00101123	4	.803	20.4	413	730	1087
00100014	3	.200	5.1	10	34	42	00101133	5	.898	22.8	516	921	1370
00100024	4	.225	5.7	13	40	54	4 AWG (200/26) 25 mm²						
00100034	5	.245	6.2	16	48	63	0010303	3	.906	23.0	484	932	1388
18 AWG (32/32) 1.00 mm²							00101153	4	1.000	25.4	645	1063	1582
00100414	2	.225	5.7	13	43	53	00101163	5	1.122	28.5	806	1343	1998
00100424	3	.236	6.0	19	52	65	2 AWG (280/26) 35 mm²						
00100434	4	.256	6.5	26	65	79	0010304	3	1.008	25.6	677	1187	1766
00100444	5	.279	7.1	32	70	94	00101173	4	1.112	28.5	903	1416	2106
(450/750 V)							00101183	5	1.256	31.9	1129	1771	2635
16 AWG (30/30) 1.50 mm ²							1 AWG (400/26) 50 mm²						
00100634	2	.248	6.3	19	58	68	0010305	3	1.220	31.0	968	1718	2556
00100644	3	.263	6.7	29	73	84	00101193	4	1.358	34.5	1290	1978	2943
00100654	4	.284	7.2	39	89	104	2/0 AWG (560/26) 70 mm²						
00100664	5	.319	8.1	48	110	128	0010306	3	1.390	35.3	1355	2139	3182
14 AWG (50/30) 2.50 mm²							00101203	4	1.551	39.4	1806	2750	4092
0010086	2	.350	8.9	32	86	128	3/0 AWG (485/24) 95 mm²						
0010087	3	.378	9.6	48	109	162	0010307	3	1.626	41.3	1839	3142	4675
00100883	4	.421	10.7	65	136	203	00101213	4	1.803	45.8	2451	3717	5538
00100893	5	.465	11.8	81	163	242	4/0 AWG (614/24) 120 mm²						
12 AWG (56/28) 4 mm²							0010308	3	1.874	47.6	2322	3776	5626
0010100	2	.417	10.6	52	126	187	00103093	4	2.091	53.1	3096	4694	6994
00101013	4	.500	12.7	103	200	297	350 KCMIL (942/24) 185 mm²						
00101023	5	.547	13.9	129	239	355	00103123	4	2.476	62.9	4774	5578	8300
10 AWG (84/28) 6 mm²													
0010105	3	.496	12.6	116	214	318							
00101063	4	.543	13.8	155	265	394							
00101073	5	.614	15.6	194	329	489							
8 AWG (80/26) 10 mm²													
0010301	3	.626	15.9	194	342	516							
00101093	4	.693	17.6	258	437	650							
00101103	5	.776	19.7	323	532	792							

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ÖLFLEX® CLASSIC 110 Flexible Control Cable Number Coded

Construction: Finely stranded bare copper conductors, PVC insulation conductors cabled with non-wicking fillers, dry lubricant. Fine Wire per VDE 0295, Class 5, IEC 60228 Cl.5.

Insulation: PVC. **Jacket:** Gray PVC.

Features:

ÖLFLEX® CLASSIC 110 is a number coded, multi-conductor control and power cable for use in all electrical equipment in dry, damp or wet conditions. It is a European style cable conforming to CE and is available unshielded and shielded.

Applications:

Control systems, Assembly lines, Control panels, Data processing equipment and other European influenced machine specifications.

Additional Information:

Common European control cable. Conforms to CE standards. Available with inner jacket and tinned copper braid for EMI & RFE protection. Pressure extruded jacket for improved flexibility.

Technical Data:

Minimum Bend Radius: for installation- 4 x cable diameter. With shield: 6 x cable diameter.

 **Temperature:**
• -40°C to + 80°C

 **Rated Voltage:**
• 300/500V

 **Color Code:**
• Black with white numbers,
plus green/yellow ground

 **Approvals:**
• VDE Reg. No. 7030



Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km
21 AWG (16/32) 0.50 mm ²							1119325	25	.665	16.9	242	376	560
1119752	2	.189	4.8	7	24	35	1119334	34	.764	19.4	329	501	746
1119003	3	.201	5.1	10	28	42	1119341	41	.839	21.3	397	602	895
1119004	4	.224	5.7	13	36	54	1119350	50	.925	23.5	484	732	1089
1119005	5	.244	6.2	16	42	63	1119365	65	1.051	26.7	629	940	1398
1119007	7	.264	6.7	23	54	81	14 AWG (50/30) 2.50 mm ²						
1119012	12	.350	8.9	39	88	131	1119952	2	.295	7.5	32	68	101
1119018	18	.413	10.5	58	126	188	1119403	3	.319	8.1	48	89	132
1119025	25	.488	12.4	81	175	261	1119404	4	.350	8.9	65	110	163
1119035	35	.571	14.5	113	172	256	1119405	5	.394	10.0	81	134	200
1119052	52	.681	17.3	168	347	517	1119407	7	.437	11.1	113	179	267
1119065	65	.772	19.6	210	433	644	1119412	12	.583	14.8	194	299	445
1119100	100	.929	23.6	323	655	975	1119418	18	.701	17.8	290	436	648
18 AWG (32/32) 1.00 mm ²							1119425	25	.819	20.8	403	598	890
1119852	2	.224	5.7	13	36	53	1119434	34	.961	24.4	548	812	1208
1119203	3	.236	6.0	19	44	65	1119450	50	1.157	29.4	806	1179	1754
1119204	4	.256	6.5	26	53	79	12 AWG (56/28) 4 mm ²						
1119205	5	.280	7.1	32	63	94	1119503	3	.390	9.9	77	135	201
1119207	7	.315	8.0	45	85	126	1119504	4	.425	10.8	103	167	249
1119212	12	.413	10.5	77	138	205	1119505	5	.476	12.1	129	205	305
1119218	18	.500	12.7	116	202	300	1119507	7	.528	13.4	181	274	407
1119225	25	.579	14.7	161	274	408	1119511	11	.693	17.6	284	426	634
1119234	34	.673	17.1	258	370	551	10 AWG (84/28) 6 mm ²						
1119241	41	.740	18.8	265	444	661	1119603	3	.461	11.7	116	194	289
1119250	50	.811	20.6	323	536	797	1119604	4	.512	13.0	155	245	365
1119265	65	.929	23.6	419	694	1033	1119605	5	.571	14.5	194	300	447
1119280	80	.996	25.3	516	844	1251	1119607	7	.630	16.0	271	403	600
1119300	100	1.114	28.3	645	1048	1560	8 AWG (80/26) 10 mm ²						
16 AWG (30/30) 1.50 mm ²							1119614	4	.638	16.2	258	397	590
1119902	2	.248	6.3	19	46	68	6 AWG (128/26) 16 mm ²						
1119303	3	.264	6.7	29	56	84	1119624	4	.740	18.8	413	731	1087
1119304	4	.283	7.2	39	70	104	4 AWG (200/26) 25 mm ²						
1119305	5	.319	8.1	48	86	128	1119634	4	.925	23.5	645	1063	1582
1119307	7	.350	8.9	68	112	166	2 AWG (280/26) 35 mm ²						
1119312	12	.472	12.0	116	188	279	1119644	4	1.039	26.4	903	1415	2106
1119318	18	.567	14.4	174	274	407	1119645	5	1.185	30.1	1129	1771	2635

ÖLFLEX® CLASSIC 110 Black 1000V UV Resistant Control Cable with Numbered Conductors

Construction: Finely stranded bare copper conductors, conductors cabled with non-wicking fillers.

Fine Wire per VDE 0295, Class 5, IEC 60228 CL.5.

Insulation: PVC. **Jacket:** Black PVC.

Features:

ÖLFLEX® CLASSIC 110 Black is a number coded, multi-conductor control and power cable for use in all electrical equipment in dry, damp or wet conditions. It is a European style cable conforming to CE.

Applications:

Control systems, Assembly lines, Control panels, Data processing equipment and other European influenced machinery specifications.

Additional Information:

1000V European control cable. Conforms to CE standards. Pressure extruded jacket for improved flexibility. Black UV resistant jacket for outdoor use.

Technical Data:

Minimum Bend Radius: for installation- 4 x cable diameter.



Temperature:

• -30°C to +80°C



Rated Voltage:

• 600/1000V



Color Code:

• Black with white numbers,
plus green/yellow ground



Approvals:

• Based on VDE specifications



Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km
18 AWG (32/32) 1.00 mm ²							12 AWG (56/28) 4 mm ²						
1120267	3	.354	9.0	19	75	112	1120353	25	1.016	25.8	403	735	1094
1120269	4	.378	9.6	26	88	131	1120360	4	.543	13.8	103	218	324
1120271	5	.409	10.4	32	102	152	1120361	5	.594	15.1	129	259	385
1120274	7	.437	11.1	45	132	196	1120362	7	.646	16.4	181	345	513
1120280	12	.551	14.0	77	192	286	10 AWG (84/28) 6 mm ²						
1120284	18	.634	16.1	116	282	419	1120366	4	.594	15.1	155	297	442
1120290	25	.732	18.6	161	384	572	8 AWG (80/26) 10 mm ²						
16 AWG (30/30) 1.50 mm ²							1120370	4	.736	18.7	258	475	707
1120307	3	.398	10.1	29	97	144	6 AWG (128/26) 16 mm ²						
1120309	4	.425	10.8	39	114	170	1120374	4	.839	21.3	413	739	1100
1120311	5	.461	11.7	48	134	199	4 AWG (200/26) 25 mm ²						
1120314	7	.496	12.6	68	175	261	1120378	4	1.031	26.2	645	1075	1600
1120320	12	.634	16.1	116	268	399	2 AWG (280/26) 35 mm ²						
1120324	18	.740	18.8	174	368	547	1120382	4	1.146	29.1	903	1613	2400
1120328	25	.854	21.7	242	517	770	1 AWG (400/26) 50 mm ²						
14 AWG (50/30) 2.50 mm ²							1120385	4	1.402	35.6	1290	2285	3400
1120340	3	.445	11.3	48	122	182	2/0 AWG (560/26) 70 mm ²						
1120342	4	.480	12.2	65	151	225	1120387	4	1.602	40.7	1839	3393	5050
1120344	5	.524	13.3	81	179	266	3/0 AWG (485/24) 95 mm ²						
1120346	7	.567	14.4	113	238	354	1120389	4	1.843	46.8	2451	4038	6010
1120349	12	.736	18.7	194	363	540	4/0 AWG (614/24) 120 mm ²						
1120351	18	.866	22.0	290	529	788	1120390	4	2.106	53.5	3096	5040	7500

Still available through Germany, not U.S.

Specifications subject to change. For complete specifications and availability visit www.lapptannehill.com



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ÖLFLEX® CLASSIC 110 H Oil Resistant Halogen-Free Control Cable LSF OH (Low Smoke & Fume, Zero Halogen)

Construction: Finely stranded bare copper conductors, Class 5

Insulation: Halogen-free polymer compound. **Jacket:** Specially formulated oil resistant gray halogen-free polymer jacket.

Features:

ÖLFLEX® CLASSIC 110 H is a halogen-free, multi-conductor control and power cable with improved oil resistance and flame protection. It is for use in all electrical equipment in dry or damp conditions. It is UV resistant at normal temperatures and is available unshielded and shielded.

Applications:

Amusement rides, Theater stages and other areas where human safety is a concern. Also suitable on machinery due to its improved oil resistance.

Additional Information:

Completely recyclable, low toxicity of smoke gases and low smoke density (IEC 61034). No flame propagation for cables $\geq 18/7c$ (IEC 60332-3-24) and flame retardant (IEC60332-1-2). Oil resistant (UL Oil Res I & II).

Technical Data:

Minimum Bend Radius-for installation: 4 x cable diameter. With shield: 6 x cable diameter.

 Temperature:	 Rated Voltage:	 Color Code:
• -40°C to +80°C	• 300/500V	• Black with white numbers, plus green/yellow ground

 Approvals:
• Based on VDE specifications



Part number	Number of cores and mm² per conductor	Outer diameter in mm approx.	Copper index kg/km	Weight kg/km approx.
ÖLFLEX® CLASSIC 110 H U0/U: 300/500V				
10019900	2 X 0.5	5.1	9.6	41
10019901	3 G 0.5	5.4	14.4	49
10019902	3 X 0.5	5.4	14.4	49
10019903	4 G 0.5	5.8	19.2	58
10019904	4 X 0.5	5.8	19.2	58
10019905	5 G 0.5	6.3	24.0	69
10019906	7 G 0.5	6.9	33.6	87
10019907	12 G 0.5	9.1	57.6	141
10019910	2 X 0.75	5.5	14.4	51
10019911	3 G 0.75	5.8	21.6	61
10019912	3 X 0.75	5.8	21.6	61
10019913	4 G 0.75	6.3	28.8	73
10019914	4 X 0.75	6.3	28.8	73
10019915	5 G 0.75	6.9	36.0	87
10019916	5 X 0.75	6.9	36.0	87
10019917	7 G 0.75	7.5	50.4	111
10019918	7 X 0.75	7.5	50.4	111
10019919	9 G 0.75	9.6	64.8	150
10019920	12 G 0.75	10.1	86.4	186
10019921	18 G 0.75	12.0	129.6	265
10019922	25 G 0.75	14.1	180.0	365
10019960	2 X 1	5.8	19.2	59
10019961	3 G 1	6.1	28.8	72
10019962	3 X 1	6.1	28.8	72
10019963	4 G 1	6.6	38.4	87
10019964	4 X 1	6.6	38.4	87
10019965	5 G 1	7.3	48.0	104
10019967	7 G 1	8.1	67.2	138
10019968	8 G 1	9.7	76.8	164
10019969	12 G 1	10.7	115.2	225
10019970	14 G 1	11.4	134.4	261
10019971	18 G 1	12.9	172.8	328
10019972	25 G 1	15.0	240.0	445

Part number	Number of cores and mm² per conductor	Outer diameter in mm approx.	Copper index kg/km	Weight kg/km approx.
10019973	41 G 1	19.2	393.6	719
10019930	2 X 1.5	6.4	28.8	76
10019931	3 G 1.5	6.8	43.2	94
10019980	3 X 1.5	6.8	43.2	94
10019932	4 G 1.5	7.4	57.6	115
10019933	5 G 1.5	8.3	72.0	142
10019934	7 G 1.5	9.0	100.8	184
10019981	8 G 1.5	10.8	115.2	218
10019982	9 G 1.5	11.6	129.6	245
10019935	12 G 1.5	12.2	172.8	308
10019936	14 G 1.5	13.0	201.6	357
10019937	18 G 1.5	14.6	259.2	449
10019938	25 G 1.5	17.2	360.0	617
10019927	34 G 1.5	19.8	489.6	821
10019944	2 X 2.5	7.6	48.0	113
10019945	3 G 2.5	8.3	72.0	146
10019946	4 G 2.5	9.0	96.0	180
10019947	5 G 2.5	10.1	120.0	221
10019948	7 G 2.5	11.2	168.0	295
10019949	12 G 2.5	15.1	288.0	491
10019950	4 G 4	10.8	153.6	268
10019951	5 G 4	12.1	192.0	328
10019952	7 G 4	13.4	268.8	438
10019953	4 G 6	13.0	230.4	391
10019954	5 G 6	14.5	288.0	478
10019975	7 G 6	16.0	403.2	638
10019851	4 G 10	16.2	384.0	635
10019852	5 G 10	18.1	480.0	775
10019849	4 G 16	18.8	614.4	930
10019853	5 G 16	21.2	768.0	1,147
10019854	4 G 25	23.5	960.0	1,442
10019855	5 G 25	26.4	1,200.0	1,773
10019856	4 G 35	26.6	1,344.0	1,917

Please contact your sales representative for detailed information at sales@lapptannehill.com

UNITRONIC® 300 Multi-Conductor Unshielded 300V Flexible Industrial Signal and Control Cable

Construction: Finely stranded tinned copper conductors. Class 5.

Insulation: PVC blended. **Jacket:** Oil resistant gray PVC.

Features:

The UNITRONIC® 300 Series of signal and control cables have been carefully engineered to provide the highest performance and ease of installation in industrial signal and control applications.

Available shielding options provide EMC protection in the harshest industrial environments.

Applications:

Process Instrumentation, Low Voltage control interconnect.

Additional Information:

Extended temperature rating of -25°C to +105°C. Flexible design for ease of routing. Suitable for use in cable tray. Oil and UV resistant. (Oil Res I). Sequential foot marking for ease of installation.

Technical Data:

Minimum Bending Radius: for installation- 4 x cable diameter. With shield- 6 x cable diameter.

 Temperature: • -25°C to +105°C	 Rated Voltage: • 300V	 Color Code: • 28-22 AWG, Chart 4 • 20-16 AWG Chart 5	 Approvals: • UL: CMG, PLTC*, Exposed Run**, AWG 2464 Oil Res I • CSA: CMG/FT4, AWM II A/B
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Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km
28 AWG (19/40) 0.10 mm²							20 AWG (19/32) 0.62 mm²						
302802***	2	.149	3.8	1	8	12	302002	2	.225	5.7	8	38	57
302803***	3	.155	3.9	2	12	17	302003	3	.237	6.0	11	40	60
302804***	4	.164	4.2	2	14	20	302004	4	.256	6.5	15	50	74
302806***	6	.185	4.7	3	19	29	302006	6	.308	7.8	22	65	97
302808***	8	.196	5.0	5	20	30	302008	8	.331	8.4	30	90	134
302810***	10	.221	5.6	6	23	35	302010	10	.381	9.7	37	96	143
302815***	15	.246	6.3	9	29	43	302015	15	.452	11.5	56	120	179
302820***	20	.268	6.8	12	36	54	302020	20	.497	12.6	60	174	259
302825***	25	.307	7.8	15	43	64	302025	25	.554	14.1	94	238	354
302830***	30	.318	8.1	17	49	72	302030***	30	.577	14.7	113	282	419
302840***	40	.350	8.9	23	61	91	302040***	40	.662	16.8	150	376	559
302850***	50	.389	9.8	29	73	108	302050***	50	.742	18.9	188	470	699
26 AWG (19/38) 0.15 mm²							18 AWG (19/30) 1.00 mm²						
302602***	2	.155	3.9	2	12	2	301802	2	.243	6.2	12	41	61
302603***	3	.161	4.1	3	14	14	301803	3	.256	6.5	18	43	64
302604***	4	.171	4.4	4	16	16	301804	4	.287	7.3	24	53	79
302606***	6	.194	4.9	6	20	20	301806	6	.335	8.5	36	69	103
302608***	8	.206	5.2	7	23	23	301808	8	.360	9.2	48	94	140
302610***	10	.233	5.9	9	28	28	301810***	10	.437	11.1	60	131	195
302615***	15	.260	6.6	14	36	36	301815***	15	.494	12.6	90	166	247
302620***	20	.294	7.5	18	45	45	301820***	20	.544	13.8	121	221	329
302625***	25	.325	8.3	23	54	54	301825***	25	.629	16.0	151	275	409
302630***	30	.337	8.6	28	63	63	301830***	30	.655	16.6	181	361	538
302640***	40	.372	9.4	37	78	78	301840***	40	.728	18.5	241	482	717
302650***	50	.415	10.5	46	98	98	301850***	50	.818	20.8	301	602	896
24 AWG (19/36) 0.24 mm²							16 AWG (26/30) 1.32 mm²						
302402***	2	.165	4.2	3	13	19	301602	2	.265	6.7	16	56	83
302403***	3	.172	4.4	4	15	22	301603	3	.290	7.4	24	60	89
302404***	4	.183	4.7	6	18	27	301604	4	.314	8.0	32	74	110
302406***	6	.209	5.3	9	23	34	301606	6	.368	9.3	49	110	164
302408***	8	.223	5.7	12	28	42	301608***	8	.417	10.6	65	164	244
302410***	10	.253	6.4	15	34	51	301610***	10	.481	12.2	81	180	268
302415	15	.284	7.2	22	46	68	301615***	15	.546	13.9	122	243	362
302420***	20	.321	8.1	30	58	86	301620***	20	.603	15.3	163	331	493
302425***	25	.355	9.0	37	70	104	301625***	25	.696	17.7	204	409	609
302430***	30	.369	9.4	45	88	131	301630***	30	.725	18.4	244	488	727
302440***	40	.430	10.9	60	117	174	301640***	40	.808	20.5	326	651	969
302450***	50	.479	12.2	75	146	218	301650***	50	.910	23.1	407	814	1211
22 AWG (19/34) 0.38 mm²													
302202	2	.179	4.5	5	15	22							
302203	3	.187	4.7	7	19	28							
302204	4	.200	5.1	9	22	33							
302206	6	.229	5.8	14	31	46							
302208	8	.245	6.2	19	37	55							
302210	10	.289	7.3	24	45	67							
302215	15	.324	8.2	35	61	91							
302220	20	.355	9.0	47	78	116							
302225	25	.414	10.5	59	95	141							
302230***	30	.430	10.9	71	118	175							
302240***	40	.474	12.0	94	157	234							
302250***	50	.529	13.4	118	196	292							

* 28 AWG, 26 AWG, & 24 AWG not PLTC

** Exposed run for 18 AWG & 16 AWG

Meets NEC Art. 725, 760, & 800. Also Class I Div. 2 (PLTC only)

***Subject to 2500' min buy



ÖLFLEX® CLASSIC 100 CY Flexible Power and Control Cable

Construction: Finely stranded bare copper conductors, conductors cabled with non-wicking fillers, dry lubricant. Fine Wire per VDE 0295, Class 5, IEC 60228 Cl.5.

Insulation: PVC plus inner PVC jacket with tinned copper braid. **Jacket:** Transparent PVC.



Features:

ÖLFLEX® CLASSIC 100 CY is a color coded, shielded multi-conductor control and power cable for use in all electrical equipment in dry, damp or wet conditions. It is a European style cable conforming to CE.

Applications:

Control systems, Assembly lines, Control panels, Data processing equipment and other European influenced machinery specifications.

Additional Information:

European color code for power. Conforms to CE standards. Pressure extruded jacket for improved flexibility.

Technical Data:

Minimum Bend Radius: for installation- 4 x cable diameter, with shield- 6 x cable diameter.



Temperature:
• -40°C to +80°C



Rated Voltage:
• 300/500V (≤ 16 AWG)
• 450/750 V (≥ 14 AWG)



Color Code:
• Chart 6



Approvals:
• Based on VDE specifications



Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km
(300/500)							(450/750 V)						
21 AWG (16/32) 0.50 mm ²							8 AWG (80/26) 10 mm ²						
0035001	2	.276	7.0	28	50	75	00350213	4	.831	21.1	375	566	843
0035002	3	.287	7.3	31	56	83	00352903	5	.909	23.1	480	675	1004
00350033	4	.311	7.9	37	67	99	6 AWG (128/26) 16 mm ²						
00352013	5	.331	8.4	44	75	112	00350223	4	.941	23.9	540	936	1395
18 AWG (32/32) 1.00 mm ²							00350153	5	1.055	26.8	706	1216	1812
0035220	2	.311	7.9	38	66	98	4 AWG (200/26) 25 mm ²						
0035221	3	.323	8.2	44	75	111	00350233	4	1.157	29.4	866	1279	1903
00352223	4	.343	8.7	52	87	130	2 AWG (280/26) 35 mm ²						
00352233	5	.374	9.5	60	103	153	00350253	4	1.276	32.4	1138	1673	2489
(450/750 V)							1 AWG (400/26) 50 mm ²						
16 AWG (30/30) 1.50 mm ²							00350273	4	1.409	38.8	1574	2259	3362
0035000	2	.390	9.9	44	89	132	2/0 AWG (560/26) 70 mm ²						
0035458	3	.406	10.3	53	114	170	00350283	4	1.720	43.7	2039	2499	3719
00354593	4	.445	11.3	65	137	204	3/0 AWG (485/24) 95 mm ²						
00354603	5	.496	12.6	78	165	246	00350293	4	1.984	50.4	2725	3931	5849
14 AWG (50/30) 2.50 mm ²							4/0 AWG (614/24) 120 mm ²						
0035011	3	.465	11.8	98	142	211	00354303	4	2.236	56.8	3511	5046	7509
00350173	4	.531	13.5	112	208	310	300 KCMIL (765/24) 150 mm ²						
00350123	5	.575	14.6	134	219	326	00354313	4	2.449	62.2	4233	5242	7800
12 AWG (56/28) 4 mm ²							350 KCMIL (944/24) 185 mm ²						
00350183	4	.594	15.1	159	271	403	00354323	4	2.669	67.8	5210	6630	9866
00350133	5	.650	16.5	220	321	478							
10 AWG (84/28) 6 mm ²													
00350193	4	.654	16.6	214	352	524							
00350143	5	.717	18.2	296	419	624							

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ÖLFLEX® CLASSIC 110 CY Flexible Control Cable

Construction: Finely stranded bare copper conductors, conductors cabled with non-wicking fillers: dry lubricant. Fine Wire per VDE 0295, Class 5, IEC 60228 Cl.5.

Insulation: PVC plus inner PVC jacket with tinned copper braid. **Jacket:** Transparent PVC.

Features:

ÖLFLEX® CLASSIC 110 CY is a number coded, shielded multi-conductor control and power cable for use in all electrical equipment in dry, damp or wet conditions. It is a European style cable conforming to CE.

Applications:

Control systems, Assembly lines, Control panels, Data processing equipment and other European influenced machine specifications.

Additional Information:

Common European control cable. Conforms to CE standards. Pressure extruded jacket for improved flexibility.



Technical Data:

Minimum Bend Radius-for installation: 4 x cable diameter. With shield: 6 x cable diameter.

Temperature:
• -40°C to +80°C

Rated Voltage:
• 300/500V

Color Code:
• Black with white numbers,
plus green/yellow ground

Approvals:
• VDE Reg. No. 7030



Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km
21 AWG (16/32) 0.50 mm ²							1135304	4	.378	9.6	67	110	163
1135752	2	.276	7.0	28	50	75	1135305	5	.406	10.3	84	126	188
1135003	3	.287	7.3	31	56	83	1135307	7	.445	11.3	132	159	237
1135004	4	.311	7.9	37	67	99	1135312	12	.583	14.8	188	264	393
1135005	5	.331	8.4	44	75	112	1135318	18	.677	17.2	261	362	538
1135007	7	.350	8.9	54	89	132	1135325	25	.791	20.1	360	501	745
1135012	12	.445	11.3	93	136	202	14 AWG (50/30) 2.50 mm ²						
1135018	18	.524	13.3	105	194	289	1135403	3	.406	10.3	98	129	192
1135025	25	.598	15.2	168	254	378	1135404	4	.445	11.3	112	157	233
18 AWG (32/32) 1.00 mm ²							1135405	5	.496	12.6	134	190	283
1135852	2	.311	7.9	38	66	98	1135407	7	.547	13.9	194	249	371
1135203	3	.323	8.2	44	75	111	12 AWG (56/28) 4 mm ²						
1135204	4	.343	8.7	52	87	130	1135504	4	.528	13.4	159	233	347
1135205	5	.374	9.5	60	103	153	1135505	5	.579	14.7	188	278	413
1135207	7	.402	10.2	76	124	185	10 AWG (84/28) 6 mm ²						
1135212	12	.524	13.3	126	206	307	1135604	4	.622	15.8	214	326	485
1135218	18	.610	15.5	192	288	418	8 AWG (80/26) 10 mm ²						
1135225	25	.689	17.5	261	366	544	1135614	4	.748	19.0	375	494	735
16 AWG (30/30) 1.50 mm ²							6 AWG (128/26) 16 mm ²						
1135902	2	.335	8.5	44	79	117	1135624	4	.874	22.2	540	934	1395
1135303	3	.350	8.9	56	91	136							

Specifications subject to change. For complete specifications and availability visit www.lapptannehill.com

ÖLFLEX® CLASSIC 110 CH Oil Resistant Halogen-Free Control Cable LSF OH (Low Smoke & Fume, Zero Halogen)

Construction: Finely stranded bare copper conductors.

Fine Wire per VDE 0295, Class 5, IEC 60228 Cl.5.

Insulation: Halogen-free polymer compound, halogen-free inner jacket, tinned copper braid shield (85% coverage).

Jacket: Specially formulated oil resistant gray halogen-free polymer jacket.

Features:

ÖLFLEX® CLASSIC 110 CH is for use in all electrical equipment in dry or damp conditions. It is UV resistant at normal temperatures and is shielded.

Applications:

Amusement rides, Theater stages and other areas where human safety is a concern. Also suitable on machinery due to its improved oil resistance.

Additional Information:

Completely recyclable, low toxicity of smoke gases and low smoke density (IEC 61034.) No flame propagation for cables $\geq 18/7$ (IEC 60332-3-24) and flame retardant (IEC 60332-1-2). Oil resistant (UL Oil Res I & II).

Technical Data:

Minimum Bend Radius: for installation- 4 x cable diameter. With shield-6 x cable diameter.



Temperature:

• -40°C to +80°C



Rated Voltage:

• 300/500V



Color Code:

• Black with white numbers,
plus green/yellow ground



Approvals:

• Based on VDE specifications



Part number	Number of cores and mm² per conductor	Outer diameter in mm approx.	Copper index kg/km	Weight kg/km approx.
ÖLFLEX® CLASSIC 110 CH U0/U: 300/500V				
10035030	2 X 0.5	7.1	29.1	85
10035031	3 G 0.5	7.4	35.1	95
10035032	3 X 0.5	7.4	35.1	95
10035033	4 G 0.5	8.0	41.4	111
10035034	4 X 0.5	8.0	41.4	111
10035035	5 G 0.5	8.6	48.0	126
10035036	7 G 0.5	9.1	59.9	148
10035037	12 G 0.5	11.5	91.4	226
10035040	2 X 0.75	7.7	35.4	101
10035041	3 G 0.75	8.0	43.8	114
10035042	3 X 0.75	8.0	43.8	114
10035043	4 G 0.75	8.5	52.8	130
10035044	4 X 0.75	8.5	52.8	130
10035045	5 G 0.75	9.3	62.3	153
10035046	5 X 0.75	9.3	62.3	153
10035047	7 G 0.75	9.9	79.5	183
10035048	7 X 0.75	9.9	79.5	183
10035050	12 G 0.75	12.5	123.2	280
10035051	18 G 0.75	14.8	188.6	399
10035052	25 G 0.75	16.9	247.5	522
10035055	2 X 1	8.0	41.4	112
10035056	3 G 1	8.4	52.1	127
10035057	3 X 1	8.4	52.1	127
10035058	4 G 1	8.9	73.5	157
10035059	4 X 1	8.9	73.5	157
10035060	5 G 1	9.7	83.2	171
10035061	7 G 1	10.3	97.2	210
10035062	12 G 1	13.6	168.7	347
10035063	18 G 1	15.7	235.4	474
10035064	25 G 1	17.8	312.0	611

Part number	Number of cores and mm² per conductor	Outer diameter in mm approx.	Copper index kg/km	Weight kg/km approx.
10035065	41 G 1	22.4	508.0	969
10035067	2 X 1.5	8.6	53.2	134
10035068	3 G 1.5	9.0	69.1	155
10035069	3 X 1.5	9.0	69.1	155
10035070	4 G 1.5	9.8	85.8	186
10035071	5 G 1.5	10.5	102.8	215
10035072	7 G 1.5	11.4	134.2	269
10035073	12 G 1.5	15.0	232.8	445
10035074	18 G 1.5	17.4	327.8	610
10035075	25 G 1.5	20.4	463.2	843
10035089	3 G 2.5	10.5	102.8	220
10035090	4 G 2.5	11.4	129.4	265
10035091	5 G 2.5	12.7	157.5	322
10035092	7 G 2.5	14.0	223.0	422
10035093	12 G 2.5	17.9	360.5	659
10035094	4 G 4	13.6	207.6	390
10035095	5 G 4	14.9	251.5	463
10035096	7 G 4	16.2	333.9	588
10035097	4 G 6	15.8	294.8	516
10035098	5 G 6	17.3	356.1	616
10035099	7 G 6	18.8	479.3	792
10035380	4 G 10	19.1	461.1	789
10035381	5 G 10	21.4	586.6	998
10035382	4 G 16	22.3	727.6	1,154
10035383	5 G 16	24.5	888.7	1,389
10035384	4 G 25	27.0	1,123.9	1,807
10035386	4 G 35	30.4	1,529.2	2,321
0035388	4 G 50	36.5	2,162.0	3,741
0035390	4 G 70	41.6	2,973.0	5,054
0035392	4 G 95	47.9	3,966.0	6,427

Complete catalog available online at: www.lapptannehill.com



UNITRONIC® 300 S Flexible Industrial Signal and Control Cable

Construction: Finely stranded tinned copper conductors with drain wire.

Insulation: PVC tri-laminated foil shield and tinned copper braid (75%).

Jacket: Oil resistant gray PVC.

Features:

The UNITRONIC® 300 Series of signal and control cables have been carefully engineered to provide the highest performance and ease of installation in industrial signal and control applications. Available shielding options provide EMC protection in the harshest industrial environments.

Applications:

Process Instrumentation, Low Voltage control interconnect.

Additional Information:

Extended temperature rating of -25°C to +105°C. Flexible design for ease of routing. Suitable for use in cable tray. Oil and UV resistant (Oil Res I). Sequential foot marking for ease of installation.

Technical Data:

Minimum Bending Radius: for installation: 6 x cable diameter.

 **Temperature:**
• -25°C to +105°C

 **Rated Voltage:**
• 300V

 **Color Code:**
• 28-22 AWG Chart 4
• 20-16 AWG Chart 5

 **Approvals:**
• UL: CMG, PLTC*, Exposed Run**.
AWM 2464 Oil Res I.
• CSA: CMG/FT4, AWM II A/B

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km
28 AWG (19/40) 0.08 mm²							20 AWG (19/32) 0.75 mm²						
302802S	2	.176	4.5	4	11	17	302002S	2	.252	6.4	19	49	73
302803S	3	.182	4.6	5	15	22	302003S	3	.264	6.7	23	52	77
302804S	4	.191	4.9	6	18	26	302004S	4	.283	7.2	27	62	92
302806S	6	.212	5.4	8	24	36	302006S	6	.335	8.5	37	80	119
302808S	8	.223	5.7	10	25	38	302008S	8	.358	9.1	46	107	158
302810S	10	.248	6.3	12	29	44	302010S	10	.408	10.4	56	115	171
302815S	15	.273	6.9	16	36	54	302015S	15	.485	12.3	80	144	214
302820S	20	.295	7.5	20	45	67	302020S	20	.530	13.5	88	202	301
302825S	25	.334	8.5	25	53	79	302025S	25	.587	14.9	126	270	402
302830S	30	.345	8.8	29	60	89	302030S	30	.610	15.5	150	319	475
302840S	40	.377	9.6	37	75	112	302040S	40	.695	17.7	192	417	621
302850S	50	.442	11.2	45	89	132	302050S	50	.775	19.7	225	507	754
26 AWG (19/38) 0.14mm²							18 AWG (19/30) 1.00 mm²						
302602S	2	.182	4.6	6	16	24	301802S	2	.270	6.9	25	54	80
302603S	3	.188	4.8	7	18	27	301803S	3	.283	7.2	33	58	86
302604S	4	.198	5.0	8	21	31	301804S	4	.314	8.0	40	69	103
302606S	6	.221	5.6	11	26	38	301806S	6	.362	9.2	55	88	131
302608S	8	.233	5.9	13	29	43	301808S	8	.387	9.8	68	114	170
302610S	10	.260	6.6	16	35	52	301810S	10	.470	11.9	83	154	229
302615S	15	.287	7.3	21	44	65	301815S	15	.527	13.4	121	197	293
302620S	20	.321	8.2	27	53	79	301820S	20	.577	14.7	156	257	382
302625S	25	.352	8.9	33	63	94	301825S	25	.662	16.8	187	311	463
302630S	30	.364	9.2	38	73	109	301830S	30	.688	17.5	216	397	590
302640S	40	.399	10.1	49	91	136	301840S	40	.761	19.3	280	521	775
302650S	50	.468	11.9	60	112	167	301850S	50	.851	21.6	340	641	954
24 AWG (19/36) 0.25 mm²							16 AWG (26/30) 1.50 mm²						
302402S	2	.192	4.9	10	20	29	301602S	2	.292	7.4	34	74	110
302403S	3	.199	5.1	11	22	32	301603S	3	.317	8.0	42	78	116
302404S	4	.210	5.3	13	25	38	301604S	4	.341	8.7	52	93	138
302406S	6	.236	6.0	18	32	47	301606S	6	.395	10.0	71	132	196
302408S	8	.250	6.3	21	37	56	301608S	8	.450	11.4	91	190	283
302410S	10	.280	7.1	26	45	67	301610S	10	.514	13.1	114	213	317
302415S	15	.311	7.9	35	58	87	301615S	15	.579	14.7	156	277	412
302420S	20	.348	8.8	43	72	106	301620S	20	.636	16.2	201	369	549
302425S	25	.382	9.7	53	86	127	301625S	25	.729	18.5	246	452	673
302430S	30	.396	10.1	62	105	156	301630S	30	.758	19.3	288	532	792
302440S	40	.441	11.2	80	137	204	301640S	40	.841	21.4	368	694	1033
302450S	50	.510	12.9	98	169	252	301650S	50	.950	24.1	450	857	1275
22 AWG (19/34) 0.34 mm²													
302202S	2	.206	5.2	13	23	34							
302203S	3	.214	5.4	15	27	40							
302204S	4	.227	5.8	18	31	46							
302206S	6	.256	6.5	24	41	61							
302208S	8	.272	6.9	30	48	71							
302210S	10	.316	8.0	36	58	86							
302215S	15	.351	8.9	52	78	115							
302220S	20	.382	9.7	63	94	140							
302225S	25	.447	11.4	81	117	174							
302230S	30	.463	11.7	93	140	209							
302240S	40	.507	12.9	120	183	272							
302250S	50	.562	14.3	145	224	333							

* 28 AWG, 26 AWG, 24 AWG not PLTC

** Exposed run for 18 AWG & 16 AWG

Meets NEC Art. 725, 760, & 800. Also Class I Div. 2 (PLTC only)



LAPP GROUP



LAPP Tannehill

Color Codes

Charts 4 & 5

CHART 4: UNITRONIC® 300 & 300 CY (24-22 AWG)

Conductor	Color	Conductor	Color	Conductor	Color
1	Black	18	White/Violet	35	White/Red/Orange
2	Brown	19	White/Gray	36	White/Red/Yellow
3	Red	20	White/Black/Brown	37	White/Red/Green
4	Orange	21	White/Black/Red	38	White/Red/Blue
5	Yellow	22	White/Black/Orange	39	White/Red/Violet
6	Green	23	White/Black/Yellow	40	White/Red/Gray
7	Blue	24	White/Black/Green	41	White/Orange/Yellow
8	Violet	25	White/Black/Blue	42	White/Orange/Green
9	Gray	26	White/Black/Violet	43	White/Orange/Blue
10	White	27	White/Black/Gray	44	White/Orange/Violet
11	White/Black	28	White/Brown/Red	45	White/Orange/Gray
12	White/Brown	29	White/Brown/Orange	46	White/Yellow/Green
13	White/Red	30	White/Brown/Yellow	47	White/Yellow/Blue
14	White/Orange	31	White/Brown/Green	48	White/Yellow/Violet
15	White/Yellow	32	White/Brown/Blue	49	White/Yellow/Gray
16	White/Green	33	White/Brown/Violet	50	White/Green/Blue
17	White/Blue	34	White/Brown/Gray		

CHART 5: UNITRONIC® 300 & 300 CY (20-16 AWG)

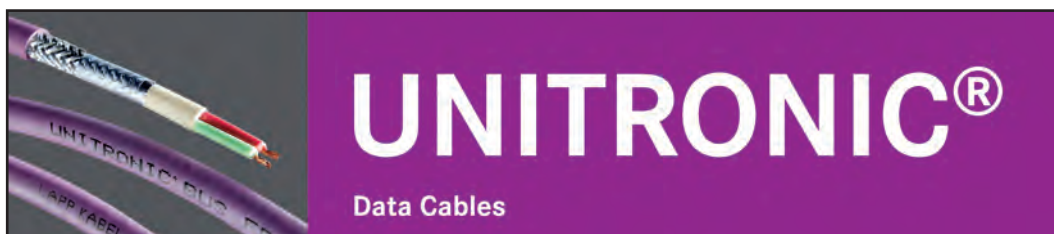
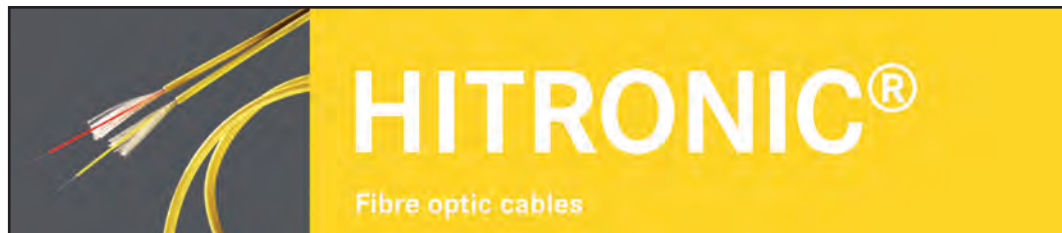
Conductor	Color	Conductor	Color	Conductor	Color
1	Black	18	White/Green	35	White/Red/Red
2	Red	19	White/Yellow	36	White/Red/Green
3	White	20	White/Blue	37	White/Red/Blue
4	Green	21	White/Brown	38	White/Red/Brown
5	Orange	22	White/Orange	39	White/Red/Violet
6	Blue	23	White/Gray	40	White/Green/Black
7	Brown	24	White/Violet	41	White/Green/Red
8	Yellow	25	White/Black/Red	42	White/Green/Green
9	Violet	26	White/Black/Green	43	White/Green/Blue
10	Gray	27	White/Black/Yellow	44	White/Green/Brown
11	Pink	28	White/Black/Blue	45	White/Green/Violet
12	Tan	29	White/Black/Brown	46	White/Blue/Black
13	Red/Green	30	White/Black/Orange	47	White/Blue/Red
14	Red/Yellow	31	White/Black/Gray	48	White/Blue/Green
15	Red/Black	32	White/Black/Violet	49	White/Blue/Blue
16	White/Black	33	White/Black/Black	50	White/Blue/Brown
17	White/Red	34	White/Red/Black		

Color Codes

Charts 6

CHART 6: VDE 0293

# of Conductors	For Flexible Cables		For Fixed Installation Cables	
	With Green/Yellow Ground DIN VDE 0293-308	Without Ground DIN VDE 0293-308	With Green/Yellow Ground DIN VDE 0293-308	Without Ground DIN VDE 0293-308
2				
3				
4				
5				
Flexible Cables built to DIN VDE 0293			Fixed Installation Cables built to DIN VDE 0293	
ÖLFLEX® Classic 100 ÖLFLEX® Classic 100 Yellow ÖLFLEX® Classic 100 CY ÖLFLEX® 100 H ÖLFLEX® 105 H ÖLFLEX® SF ÖLFLEX® 450 P ÖLFLEX® 500P ÖLFLEX® 540 P / 540 CP ÖLFLEX® 550 P SPIREX® 540 P ÖLFLEX® PUR S 15 / S 17			NYM HNXMH OLMAS CY / SY OLMAS EB / EB CY NYY-J / NYY-O NYCY / NYCWY	
SPIREX® H07RN-F NSSHO NEOFLEX (flat) H05RR-F / H05RN-F / H07RN-F & H05VV-F NEOFLEX (Round) ÖLFLEX® Aqua round rubber ÖLFLEX® Aqua rubber BAM KRANEFLEX® NSHTOU KRANEFLEX® VS NSHTOU ÖLFLEX® Flat Cables ÖLFLEX® HEAT 145			ÖLFLEX® HEAT 180 SIHF ÖLFLEX® HEAT 180 H05SS-F ÖLFLEX® HEAT 180 ÖLFLEX® HEAT 180 H05SS EWKF ÖLFLEX® HEAT 180 GLS ÖLFLEX®-FEP Cables ÖLFLEX® PTFE / GLS	



Performance as Tough as Your Application



Hazard-Matched Xtra-Guard® Cable Solves the Biggest Challenges in the Toughest Environments



There is an Xtra-Guard Cable for Every Application Hazard

No matter what extremes your application faces, you'll find an Xtra-Guard cable that excels in meeting your requirements for performance and reliability. Downtime is costly—whether caused by a complete cable failure or from the little glitches that occur when a cable doesn't live up to the demands of the application.

Xtra-Guard 1 - High Performance

High performance in a tough PVC cable

Xtra-Guard 2 - Oil and Abrasion Resistant

Exceptional abrasion resistance to withstand mechanical abuse

Xtra-Guard 3 - Direct Burial

Direct burial—no conduit needed

Xtra-Guard 4 - Advanced Temperature and Chemical Performance

Extreme temperature handles hot, cold, spills

Xtra-Guard 5 - Maximum Chemical and Temperature Performance

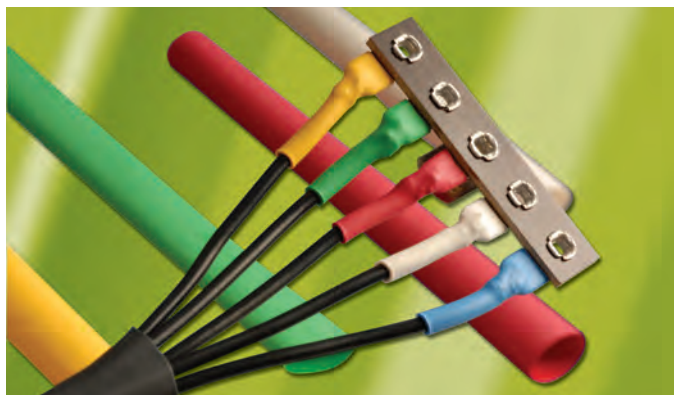
Chemical and temperature resistant to withstand the most hazardous environments

Xtra-Guard Flex

For high-flex, high torsional, and continuous-flex applications

No Noise is Good News

Xtra-Guard cables are available shielded or unshielded. For superior EMI performance, our patented Supra-Shield® high performance shielding system gives excellent immunity to noise over a broad frequency range.



There's a FIT® Heat-Shrink Tubing for Every Xtra-Guard Cable

Seal and protect wire and cables from environmental and mechanical abuse. The perfect complement to Xtra-Guard cable, FIT heat-shrink tubing in a wide range of shrink ratios and materials to offer the same hazard-matched performance. From general-purpose polyolefin to high-temperature PTFE, FIT tubing gives you more choice, more options, and more performance.

Multi-Conductor

Xtra-Guard® 1 300V Unshielded, Multi-Conductor

Construction: Stranded tinned copper conductors.

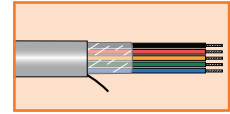
Insulation: Premium PVC insulation. **Jacket:** Premium PVC jacket-slate. Bulk: nine colors available.

Features:

Nylon ripcord, UV resistant

Applications:

EIA RS-232 interface. High technology applications in controlled environments. Medical electronics. Point-of-sale equipment. Computer peripherals. Industrial process controls.



28 AWG (0.09 mm²)

Stranding: 7/36 (7 x 0.127 mm)
Insulation thickness: 0.010 (0.25 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5920	2	0.138	3.51	0.032	0.81
5921	3	0.144	3.66	0.032	0.81
5922	4	0.153	3.89	0.032	0.81
5923	6	0.174	4.42	0.032	0.81
5924	7	0.174	4.42	0.032	0.81
5925	8	0.185	4.70	0.032	0.81

26 AWG (0.14 mm²)

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5666	2	0.146	3.71	0.032	0.81
5667	3	0.152	3.86	0.032	0.81
5668	4	0.162	4.11	0.032	0.81
5669	6	0.186	4.72	0.032	0.81
5670	7	0.186	4.72	0.032	0.81
5671	8	0.198	5.03	0.032	0.81
5672	10	0.224	5.69	0.032	0.81
5673	15	0.248	6.30	0.032	0.81

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5012C	2	0.156	3.96	0.032	0.81
5013C	3	0.163	4.14	0.032	0.81
5014C	4	0.175	4.45	0.032	0.81
5016C	6	0.201	5.11	0.032	0.81
5018C	8	0.215	5.46	0.032	0.81
5020C	10	0.244	6.20	0.032	0.81
5020/15C	15	0.271	6.88	0.032	0.81
5020/20C	20	0.300	7.62	0.032	0.81
5020/25C	25	0.332	8.43	0.032	0.81
5020/30C	30	0.350	8.89	0.032	0.81
5020/40C	40	0.390	9.91	0.032	0.81
5020/50C	50	0.429	10.90	0.032	0.81

Technical Data:



Temperature:

- <-30°C to +80° (AWM).
- -30°C to +105°C (CM)



Rated Voltage:

- 300V



Color Code:

- 28,26,24,22 AWG: Chart D.
- 20,18,16 AWG: Chart D



Approvals:

- UL CM
- UL AWM 2464 VW-1
- CSA CMG FT4



Xtra-Guard® 1 High Performance 300V Unshielded, Multi-Conductor

Construction: Stranded tinned copper conductors.

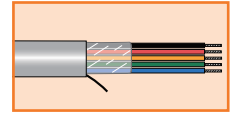
Insulation: Premium PVC insulation. **Jacket:** Premium PVC jacket-slate. Bulk: nine colors available.

Features:

Nylon ripcord. UV resistant

Applications:

EIA RS-232 interface. High technology applications in controlled environments. Medical electronics. Point-of-sale equipment. Computer peripherals. Industrial process controls.



22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5002C	2	0.168	4.27	0.032	0.81
5003C	3	0.176	4.47	0.032	0.81
5004C	4	0.189	4.80	0.032	0.81
5006C	6	0.219	5.56	0.032	0.81
5008C	8	0.235	5.97	0.032	0.81
5010C	10	0.268	6.81	0.032	0.81
5010/15C	15	0.299	7.59	0.032	0.81
5010/20C	20	0.331	8.41	0.032	0.81
5010/25C	25	0.368	9.35	0.032	0.81
5010/30C	30	0.389	9.88	0.032	0.81
5010/40C	40	0.434	11.02	0.032	0.81
5010/50C	50	0.478	12.14	0.032	0.81
5010/60C	60	0.518	13.16	0.032	0.81

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5052C	2	0.208	5.28	0.032	0.81
5053C	3	0.219	5.56	0.032	0.81
5054C	4	0.238	6.05	0.032	0.81
5056C	6	0.280	7.11	0.032	0.81
5058C	8	0.302	7.67	0.032	0.81
5060C	10	0.348	8.84	0.032	0.81
5060/15C	15	0.391	9.93	0.032	0.81
5060/20C	20	0.437	11.10	0.032	0.81
5060/25C	25	0.488	12.40	0.032	0.81
5060/30C	30	0.517	13.13	0.032	0.81
5060/40C	40	0.622	15.80	0.053	1.35
5060/50C	50	0.684	17.37	0.053	1.35

Technical Data:



Temperature:

- <-30°C to +80° (AWM).
- -30°C to +105°C (CM)



Rated Voltage:

- 300V



Color Code:

- 28,26,24,22 AWG: Chart E.
- 20,18,16 AWG: Chart D



Approvals:

- UL CM
- UL AWM 2464 VW-1.
- CSA CMG FT4



Specifications subject to change. For complete specifications and availability visit www.lapptannehill.com



Multi-Conductor

Xtra-Guard® 1 High Performance 300V Unshielded, Multi-Conductor

Construction: Stranded tinned copper conductors.

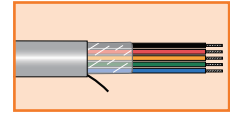
Insulation: Premium PVC insulation. **Jacket:** Premium PVC jacket-slate. Bulk: nine colors available.

Features:

Nylon ripcord, UV resistant

Applications:

EIA RS-232 interface. High technology applications in controlled environments. Medical electronics. Point-of-sale equipment. Computer peripherals. Industrial process controls.



18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5062/1C*	2	0.226	5.74	0.032	0.81
5062C	2	0.226	5.74	0.032	0.81
5063/1C*	3	0.238	6.05	0.032	0.81
5063C	3	0.238	6.05	0.032	0.81
5064C	4	0.259	6.58	0.032	0.81
5066C	6	0.307	7.80	0.032	0.81
5068C	8	0.332	8.43	0.032	0.81
5070C	10	0.384	9.75	0.032	0.81
5070/15C	15	0.433	11.00	0.032	0.81
5070/20C	20	0.484	12.29	0.032	0.81
5070/25C	25	0.542	13.77	0.032	0.81
5070/30C	30	0.617	15.67	0.053	1.35
5070/40C	40	0.688	17.48	0.053	1.35
5070/50C	50	0.758	19.25	0.053	1.35
5070/60C	60	0.881	22.38	0.083	2.11

*Conductors color-coded per international standards: brown, blue, green/yellow.

16 AWG (1.23 mm²)

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.016 (0.41 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5072/1C*	2	0.250	6.35	0.032	0.81
5072C	2	0.250	6.35	0.032	0.81
5073/1C*	3	0.264	6.71	0.032	0.81
5073C	3	0.264	6.71	0.032	0.81
5074C	4	0.288	7.32	0.032	0.81
5076C	6	0.343	8.71	0.032	0.81
5078C	8	0.372	9.45	0.032	0.81
5080C	10	0.432	10.97	0.032	0.81
5080/15C	15	0.488	12.40	0.032	0.81
5080/20C	20	0.547	13.89	0.053	0.81
5080/25C	25	0.656	16.66	0.053	0.81
5080/30C	30	0.694	17.63	0.053	0.81
5080/40C	40	0.775	19.69	0.083	2.11
5080/50C	50	0.917	23.29	0.083	2.11

*Conductors color-coded per international standards: brown, blue, green/yellow.

Technical Data:



Temperature:

- <-30°C to +80° (AWM).
- -30°C to +105°C (CM)



Rated Voltage:

- 300V



Color Code:

- 28,26,24,22 AWG: Chart E.
- 20,18,16 AWG: Chart D



Approvals:

- UL CM
- UL AWM 2464 VW-1
- CSA CMG FT4



Xtra-Guard® 1 High Performance 300V Unshielded, Multi-Conductor

Construction: Stranded tinned copper conductors.

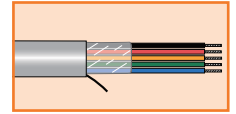
Insulation: Premium PVC insulation. **Jacket:** Premium PVC jacket. Bulk: nine colors available.

Features:

Nylon ripcord. UV resistant

Applications:

EIA RS-232 interface. High technology applications in controlled environments. Medical electronics. Point-of-sale equipment. Computer peripherals. Industrial process controls.



24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5201C	7	0.263	6.68	0.063	1.60
5202C	12	0.313	7.95	0.063	1.60
5203C	15	0.333	8.46	0.063	1.60
5204C	19	0.350	8.89	0.063	1.60
5206C	37	0.438	11.13	0.063	1.60

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5210/2C	2	0.230	5.84	0.063	1.60
5211C	7	0.281	7.14	0.063	1.60
5212C	12	0.338	8.59	0.063	1.60
5213C	15	0.361	9.17	0.063	1.60
5214C	19	0.380	9.65	0.063	1.60
5214/25C	25	0.430	10.92	0.063	1.60
5215C	27	0.438	11.13	0.063	1.60
5216C	37	0.480	12.19	0.063	1.60

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5220/2C	2	0.246	6.25	0.063	1.60
5220C	5	0.288	7.32	0.063	1.60
5221C	7	0.305	7.75	0.063	1.60
5222C	12	0.371	9.42	0.063	1.60
5223C	15	0.398	10.11	0.063	1.60
5224C	19	0.420	10.67	0.063	1.60
5224/25C	25	0.478	12.14	0.063	1.60
5225C	27	0.487	12.37	0.063	1.60
5226C	37	0.536	13.61	0.063	1.60

Technical Data:



Temperature:

- <-30°C to +80° (AWM).
- -30°C to +105°C (CM)



Rated Voltage:

- 300V



Color Code:

- Chart E



Approvals:

- UL CM
- UL AWM 2343 VW-1
- CSA CMG FT4



Specifications subject to change. For complete specifications and availability visit www.lapptannehill.com



Multi-Conductor

Xtra-Guard® 1 High Performance 600V Unshielded, Multi-Conductor

Construction: Stranded tinned copper conductors.

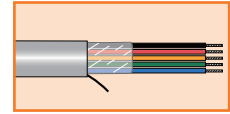
Insulation: Premium PVC insulation. **Jacket:** Premium PVC jacket-slate. Bulk: nine colors available.

Features:

Nylon ripcord. UV resistant

Applications:

EIA RS-232 interface. High technology applications in controlled environments. Medical electronics. Point-of-sale equipment. Computer peripherals. Industrial process controls.



22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5402	2	0.318	8.08	0.063	1.60
5404	4	0.358	9.09	0.063	1.60
5405	5	0.385	9.78	0.063	1.60
5409	9	0.473	12.01	0.063	1.60
5409/19	19	0.601	15.27	0.063	1.60

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5413	3	0.350	8.89	0.063	1.60
5414	4	0.377	9.58	0.063	1.60
5419	9	0.503	12.78	0.063	1.60
5419/12	12	0.554	14.07	0.063	1.60
5419/15	15	0.601	15.27	0.063	1.60
5419/19	19	0.641	16.28	0.063	1.60
5419/25	25	0.742	18.85	0.063	1.60

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5422	2	0.352	8.94	0.063	1.60
5423	3	0.369	9.37	0.063	1.60
5424	4	0.399	10.13	0.063	1.60
5425	5	0.432	10.97	0.063	1.60
5427	7	0.466	11.84	0.063	1.60
5429	9	0.535	13.59	0.063	1.60
5429/15	15	0.643	16.33	0.063	1.60
5429/19	19	0.686	17.42	0.063	1.60
5429/25	25	0.796	20.22	0.063	1.60

Technical Data:



Temperature:

- <-30°C to +105°C.
- -30°C to +90°C (MTW).



Rated Voltage:

- 600V



Color Code:

- Chart E



Approvals:

- UL CM
- UL AWM 2501 VW-1
- UL MTW
- CSA AWM I/II A/B FT4



Please contact your sales representative for detailed information at
sales@lapptannehill.com



Xtra-Guard® 1 High Performance 600V Unshielded, Multi-Conductor

Construction: Stranded tinned copper conductors.

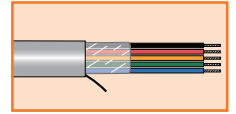
Insulation: Premium PVC insulation. **Jacket:** Premium PVC jacket-slate. Bulk: nine colors available.

Features:

Nylon ripcord. UV resistant

Applications:

EIA RS-232 interface. High technology applications in controlled environments. Medical electronics. Point-of-sale equipment. Computer peripherals. Industrial process controls.



16 AWG (1.23 mm²)

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5434	4	0.428	10.87	0.063	1.60
5435	5	0.464	11.79	0.063	1.60
5437	7	0.502	12.75	0.063	1.60
5439	9	0.579	14.71	0.063	1.60
5439/12	12	0.641	16.28	0.063	1.60
5439/15	15	0.698	17.73	0.063	1.60
5439/19	19	0.746	18.95	0.083	2.11
5439/25	25	0.908	23.06	0.083	2.11

14 AWG (2.08 mm²)

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5442	2	0.406	10.31	0.063	1.60
5443	3	0.428	10.87	0.063	1.60
5444	4	0.464	11.79	0.063	1.60
5445	5	0.505	12.83	0.063	1.60
5447	7	0.547	13.89	0.063	1.60
5449	9	0.634	16.10	0.063	1.60
5449/12	12	0.703	17.86	0.063	1.60
5449/15	15	0.767	19.48	0.063	1.60
5449/25	25	0.998	25.35	0.083	2.11



Technical Data:



Temperature:

- <-30°C to +105°C.
- -30°C to +90°C (MTW)



Rated Voltage:

- 600V



Color Code:

- Chart E



Approvals:

- UL CM
- UL AWM 2501 VW-1
- UL MTW
- CSA AWM I/II A/B FT4

Specifications subject to change. For complete specifications and availability visit www.lapptannehill.com

Multi-Conductor

Xtra-Guard® 1 High Performance 300V Foil Shielded, Multi-Conductor

Construction: Stranded tinned copper conductors.

Insulation: Premium PVC insulation. **Jacket:** Premium PVC jacket-slate. Bulk: nine colors available.

Features:

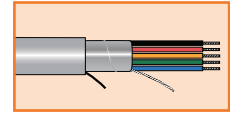
Aluminum/polyester foil shield, with 25% overlap and foil facing inward.

Tinned copper drain wire sized the same as cable conductors. Nylon ripcord. UV resistant.

Applications:

EIA RS-232 interface. High technology applications in controlled environments. Medical electronics. Point-of-sale equipment.

Computer peripherals. Industrial process controls.



28 AWG (0.09 mm²)

Stranding: 7/36 (7 x 0.127 mm)
Insulation thickness: 0.010 (0.25 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5926	2	0.142	3.61	0.032	0.81
5927	3	0.148	3.76	0.032	0.81
5928	4	0.157	3.99	0.032	0.81
5929	6	0.178	4.52	0.032	0.81
5930	7	0.178	4.52	0.032	0.81
5931	8	0.189	4.80	0.032	0.81

26 AWG (0.14 mm²)

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5674	2	0.150	3.81	0.032	0.81
5675	3	0.156	3.96	0.032	0.81
5676	4	0.166	4.22	0.032	0.81
5677	6	0.190	4.83	0.032	0.81
5678	7	0.190	4.83	0.032	0.81
5679	8	0.202	5.13	0.032	0.81
5680	10	0.228	5.79	0.032	0.81
5681	15	0.252	6.40	0.032	0.81

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5092C	2	0.160	4.06	0.032	0.81
5093C	3	0.167	4.24	0.032	0.81
5094C	4	0.179	4.55	0.032	0.81
5096C	6	0.205	5.21	0.032	0.81
5098C	8	0.219	5.56	0.032	0.81
5100C	10	0.248	6.30	0.032	0.81
5100/15C	15	0.275	6.99	0.032	0.81
5100/20C	20	0.304	7.72	0.032	0.81
5100/25C	25	0.336	8.53	0.032	0.81
5100/30C	30	0.354	8.99	0.032	0.81
5100/40C	40	0.394	10.01	0.032	0.81
5100/50C	50	0.433	11.00	0.032	0.81
5100/60C	60	0.468	11.89	0.032	0.81
5100/70C	70	0.505	12.83	0.032	0.81

Technical Data:

- Temperature:**
- <-30°C to +80°C (AWM).
 - -30°C to +105°C (CM)

- Rated Voltage:**
- 300V

- Color Code:**
- 28,26,24,22 AWG: Chart E.
 - 20,18,16 AWG: Chart D

- Approvals:**
- UL CM
 - UL AWM 2464 VW-1
 - CSA CMG FT4

Complete catalog available
online at:
www.lapptannehill.com



Xtra-Guard® 1 High Performance 300V Foil Shielded, Multi-Conductor

Construction: Stranded tinned copper conductors.

Insulation: Premium PVC insulation. **Jacket:** Premium PVC jacket-slate. Bulk: nine colors available.

Features:

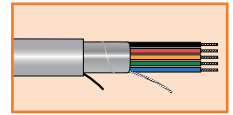
Aluminum/polyester foil shield, with 25% overlap and foil facing inward.

Tinned copper drain wire sized the same as cable conductors. Nylon ripcord. UV resistant.

Applications:

EIA RS-232 interface. High technology applications in controlled environments. Medical electronics. Point-of-sale equipment.

Computer peripherals. Industrial process controls.



22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5192C	2	0.172	4.37	0.032	0.81
5193C	3	0.180	4.57	0.032	0.81
5194C	4	0.193	4.90	0.032	0.81
5196C	6	0.223	5.66	0.032	0.81
5198C	8	0.239	6.07	0.032	0.81
5199/10C	10	0.272	6.91	0.032	0.81
5199/15C	15	0.303	7.70	0.032	0.81
5199/20C	20	0.335	8.51	0.032	0.81
5199/25C	25	0.372	9.45	0.032	0.81
5199/30C	30	0.393	9.98	0.032	0.81
5199/40C	40	0.438	11.13	0.032	0.81
5199/50C	50	0.482	12.24	0.032	0.81
5199/60C	60	0.522	13.26	0.032	0.81
5199/70C	70	0.606	15.39	0.053	1.35

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5462C	2	0.212	5.38	0.032	0.81
5463C	3	0.223	5.66	0.032	0.81
5464C	4	0.242	6.15	0.032	0.81
5466C	6	0.284	7.21	0.032	0.81
5468C	8	0.306	7.77	0.032	0.81
5470C	10	0.352	8.94	0.032	0.81
5470/15C	15	0.395	10.03	0.032	0.81
5470/20C	20	0.441	11.20	0.032	0.81
5470/25C	25	0.492	12.50	0.032	0.81
5470/30C	30	0.521	13.23	0.032	0.81
5470/40C	40	0.626	15.90	0.053	1.35
5470/50C	50	0.688	17.48	0.053	1.35

Technical Data:



Temperature:

- <-30°C to +80°C (AWW)
- -30°C to +105°C (CM)



Rated Voltage:

- 300V



Color Code:

- 28,26,24,22 AWG: Chart E.
- 20,18,16 AWG: Chart D



Approvals:

- UL CM
- UL AWM 2464 VW-1
- CSA CMG FT4



Multi-Conductor

Xtra-Guard® 1 High Performance 300V Foil Shielded, Multi-Conductor

Construction: Stranded tinned copper conductors.

Insulation: Premium PVC insulation. **Jacket:** Premium PVC jacket-slate. Bulk: nine colors available.

Features:

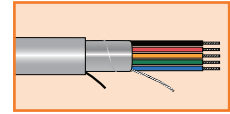
Aluminum/polyester foil shield, with 25% overlap and foil facing inward.

Tinned copper drain wire sized the same as cable conductors. Nylon ripcord. UV resistant.

Applications:

EIA RS-232 interface. High technology applications in controlled environments. Medical electronics. Point-of-sale equipment.

Computer peripherals. Industrial process controls.



18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5382C	2	0.230	5.84	0.032	0.81
5382/1C*	2	0.230	5.84	0.032	0.81
5383C	3	0.242	6.15	0.032	0.81
5383/1C*	3	0.242	6.15	0.032	0.81
5384C	4	0.263	6.68	0.032	0.81
5386C	6	0.311	7.90	0.032	0.81
5388C	8	0.336	8.53	0.032	0.81
5390C	10	0.388	9.86	0.032	0.81
5390/15C	15	0.437	11.10	0.032	0.81
5390/20C	20	0.488	12.40	0.032	0.81
5390/25C	25	0.588	14.94	0.053	1.35
5390/30C	30	0.621	15.77	0.053	1.35
5390/40C	40	0.692	17.58	0.053	1.35
5390/50C	50	0.762	19.35	0.053	1.35
5390/60C	60	0.885	22.48	0.083	2.11

*Conductors color-coded per international standards: brown, blue, green/yellow.

16 AWG (1.23 mm²)

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.016 (0.41 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5362C	2	0.254	6.45	0.032	0.81
5362/1C*	2	0.254	6.45	0.032	0.81
5363C	3	0.268	6.81	0.032	0.81
5363/1C*	3	0.268	6.81	0.032	0.81
5364C	4	0.292	7.42	0.032	0.81
5366C	6	0.347	8.81	0.032	0.81
5368C	8	0.376	9.55	0.032	0.81
5370C	10	0.436	11.07	0.032	0.81
5370/15C	15	0.492	12.50	0.032	0.81
5370/20C	20	0.593	15.06	0.053	1.35
5370/25C	25	0.660	16.76	0.053	1.35
5370/30C	30	0.698	17.73	0.053	1.35
5370/40C	40	0.779	19.79	0.083	2.11

*Conductors color-coded per international standards: brown, blue, green/yellow.

Technical Data:

- Temperature:**
- <-30°C to +80°C (AWM).
 - -30°C to +105°C (CM)

- Rated Voltage:**
- 300V

- Color Code:**
- 28,26,24,22 AWG: Chart E.
 - 20,18,16 AWG: Chart D

- Approvals:**
- UL CM
 - UL AWM 2464 VW-1
 - CSA CMG FT4



Xtra-Guard® 1 High Performance 600V Foil Shielded, Multi-Conductor

Construction: Stranded tinned copper conductors.

Insulation: Premium PVC insulation. **Jacket:** Premium PVC jacket-slate. Bulk: nine colors available.

Features:

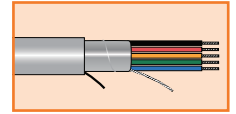
Aluminum/polyester foil shield, with 25% overlap and foil facing inward.

Tinned copper drain wire sized the same as cable conductors. Nylon ripcord. UV resistant.

Applications:

EIA RS-232 interface. High technology applications in controlled environments. Medical electronics. Point-of-sale equipment.

Computer peripherals. Industrial process controls.



22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5410/2	2	0.322	8.18	0.063	1.60
5410/3	3	0.337	8.56	0.063	1.60
5410/4	4	0.362	9.19	0.063	1.60
5410/5	5	0.389	9.88	0.063	1.60
5410/9	9	0.477	12.12	0.063	1.60
5410/12	12	0.525	13.34	0.063	1.60

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5420/3	3	0.354	8.99	0.063	1.60
5420/4	4	0.381	9.68	0.063	1.60
5420/5	5	0.411	10.44	0.063	1.60
5420/7	7	0.442	11.23	0.063	1.60
5420/9	9	0.507	12.88	0.063	1.60
5420/12	12	0.558	14.17	0.063	1.60

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5430/2	2	0.356	9.04	0.063	1.60
5430/3	3	0.373	9.47	0.063	1.60
5430/4	4	0.403	10.24	0.063	1.60
5430/5	5	0.436	11.07	0.063	1.60
5430/7	7	0.470	11.94	0.063	1.60
5430/9	9	0.539	13.69	0.063	1.60
5430/12	12	0.595	15.11	0.063	1.60
5430/15	15	0.647	16.43	0.063	1.60
5430/19	19	0.690	17.53	0.063	1.60
5430/25	25	0.800	20.32	0.063	1.60

Technical Data:



Temperature:

- <-30°C to +105°C (AWM).
- -30°C to +90°C (MTW).



Rated Voltage:

- 600V



Color Code:

- Chart E.



Approvals:

- UL AWM 2501 VW-1
- CSA AWM I/II A/B FT4
- UL MTW



Multi-Conductor

Xtra-Guard® 1 High Performance 300V Supra-Shield® Foil/Braid, Multi-Conductor

Construction: Stranded tinned copper conductors.

Insulation: Premium PVC insulation. Supra-Shield foil + braid shield: Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors. Tinned copper braid, 70% coverage min.

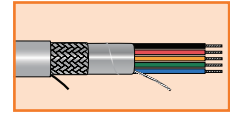
Jacket: Premium PVC jacket-slate. Bulk: nine colors available.

Features:

Nylon ripcord. Premium PVC jacket. UV resistant.

Applications:

EIA RS-232 interface. High technology applications in controlled environments. Medical electronics. Point-of-sale equipment. Computer peripherals. Industrial process controls.



28 AWG (0.09 mm²)

Stranding: 7/36 (7 x 0.127 mm)
Insulation thickness: 0.010 (0.25 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5932	2	0.166	4.22	0.032	0.81
5933	3	0.172	4.37	0.032	0.81
5934	4	0.181	4.60	0.032	0.81
5935	6	0.202	5.13	0.032	0.81
5936	7	0.202	5.13	0.032	0.81
5937	8	0.213	5.41	0.032	0.81

26 AWG (0.14 mm²)

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5682	2	0.174	4.42	0.032	0.81
5683	3	0.180	4.57	0.032	0.81
5684	4	0.190	4.83	0.032	0.81
5685	6	0.214	5.44	0.032	0.81
5686	7	0.214	5.44	0.032	0.81
5687	8	0.226	5.74	0.032	0.81
5688	10	0.252	6.40	0.032	0.81
5689	15	0.276	7.01	0.032	0.81

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5112C	2	0.184	4.67	0.032	0.81
5113C	3	0.191	4.85	0.032	0.81
5114C	4	0.203	5.16	0.032	0.81
5116C	6	0.229	5.82	0.032	0.81
5118C	8	0.243	6.17	0.032	0.81
5120C	10	0.272	6.91	0.032	0.81
5120/15C	15	0.299	7.59	0.032	0.81
5120/20C	20	0.328	8.33	0.032	0.81
5120/25C	25	0.360	9.14	0.032	0.81
5120/30C	30	0.378	9.60	0.032	0.81
5120/40C	40	0.418	10.62	0.032	0.81
5120/50C	50	0.457	11.61	0.032	0.81

Technical Data:

-  **Temperature:**
- -30°C to + 80°C (AWM).
 - -30°C to + 105°C (CM).

-  **Rated Voltage:**
- 300V

-  **Color Code:**
- 28,26,24,22 AWG Chart E.
 - 20,18,16 AWG: Chart D.

-  **Approvals:**
- UL CM
 - UL AWM 2464 VW-1
 - CSA CMG FT4



Xtra-Guard® 1 High Performance 300V Supra-Shield® Foil/Braid Multi-Conductor

Construction: Stranded tinned copper conductors. Supra-Shield foil + braid shield:

Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors.

Tinned copper braid, 70% coverage min.

Insulation: Premium PVC insulation. **Jacket:** Premium PVC jacket-slate. Bulk: nine colors available.

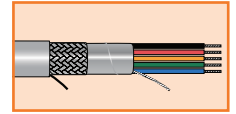
Features:

Nylon ripcord. UV resistant.

Applications:

EIA RS-232 interface. High technology applications in controlled environments. Medical electronics. Point-of-sale equipment.

Computer peripherals. Industrial process controls.



22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5102C	2	0.196	4.98	0.032	0.81
5103C	3	0.204	5.18	0.032	0.81
5104C	4	0.217	5.51	0.032	0.81
5106C	6	0.247	6.27	0.032	0.81
5108C	8	0.263	6.68	0.032	0.81
5110C	10	0.296	7.52	0.032	0.81
5110/15C	15	0.327	8.31	0.032	0.81
5110/20C	20	0.359	9.12	0.032	0.81
5110/25C	25	0.396	10.06	0.032	0.81
5110/30C	30	0.417	10.59	0.032	0.81
5110/40C	40	0.462	11.73	0.032	0.81
5110/50C	50	0.506	12.85	0.032	0.81
5110/60C	60	0.588	14.94	0.032	0.81
5110/70C	70	0.630	16.00	0.032	0.81
5110/80C	80	0.665	16.89	0.032	0.81

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5152C	2	0.236	5.99	0.032	0.81
5153C	3	0.247	6.27	0.032	0.81
5154C	4	0.266	6.76	0.032	0.81
5156C	6	0.308	7.82	0.032	0.81
5158C	8	0.330	8.38	0.032	0.81
5160C	10	0.376	9.55	0.032	0.81
5160/15C	15	0.419	10.64	0.032	0.81
5160/20C	20	0.465	11.81	0.032	0.81
5160/25C	25	0.516	13.11	0.032	0.81
5160/30C	30	0.545	13.84	0.032	0.81
5160/40C	40	0.656	16.66	0.053	1.35
5160/50C	50	0.718	18.24	0.053	1.35
5160/60C	60	0.774	19.66	0.053	1.35

Technical Data:

- Temperature:**
- -30°C to +80°C (AWM).
 - -30°C to +105°C. (CM).

- Rated Voltage:**
- 300V

- Color Code:**
- 28,26,24,22 AWG: Chart E.
 - 20,18,16 AWG: Chart D

- Approvals:**
- UL CM
 - UL AWM 2464 VW-1
 - CSA CMG FT4

Specifications subject to change.
For complete specifications and
availability visit
www.lapptannehill.com



Multi-Conductor

Xtra-Guard® 1 High Performance 300V Supra-Shield® Foil/Braid, Multi-Conductor

Construction: Stranded tinned copper conductors. Supra-Shield foil + braid shield:

Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors.

Tinned copper braid, 70% coverage min.

Insulation: Premium PVC insulation. **Jacket:** Premium PVC jacket-slate. Bulk: nine colors available.

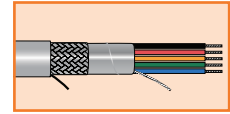
Features:

Nylon ripcord. UV resistant.

Applications:

EIA RS-232 interface. High technology applications in controlled environments. Medical electronics. Point-of-sale equipment.

Computer peripherals. Industrial process controls.



24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5300C	5	0.278	7.06	0.063	1.60
5301C	7	0.291	7.39	0.063	1.60
5302C	12	0.341	8.66	0.063	1.60
5303C	15	0.361	9.17	0.063	1.60
5304C	19	0.378	9.60	0.063	1.60
5305C	27	0.429	10.90	0.063	1.60
5306C	37	0.466	11.84	0.063	1.60
5307C	48	0.517	13.13	0.063	1.60

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5310C	5	0.294	7.47	0.063	1.60
5311C	7	0.309	7.85	0.063	1.60
5312C	12	0.366	9.30	0.063	1.60
5313C	15	0.389	9.88	0.063	1.60
5314C	19	0.408	10.36	0.063	1.60
5316C	37	0.508	12.90	0.063	1.60
5318C	60	0.608	15.44	0.063	1.60

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	Mm
5320/4C	4	0.299	7.59	0.063	1.60
5320C	5	0.316	8.03	0.063	1.60
5321C	7	0.333	8.46	0.063	1.60
5322C	12	0.399	10.13	0.063	1.60
5323C	15	0.426	10.82	0.063	1.60
5324C	19	0.448	11.38	0.063	1.60
5325C	27	0.515	13.08	0.063	1.60
5326C	37	0.564	14.33	0.063	1.60

Technical Data:

-  **Temperature:**
- <-30°C to +80°C (AWM).
 - -30°C to +105°C (CM).

-  **Rated Voltage:**
- 300V

-  **Color Code:**
- Chart E.

-  **Approvals:**
- UL CM
 - UL AWM 2343 VW-1
 - CSA CMG FT4



Xtra-Guard® 1 High Performance 600V Supra-Shield® Foil/Braid, Multi-Conductor

Construction: Stranded tinned copper conductors. Supra-Shield foil + braid shield:

Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors.

Tinned copper braid, 70% coverage min.

Insulation: Premium PVC insulation. **Jacket:** Premium PVC jacket-slate. Bulk: nine colors available.

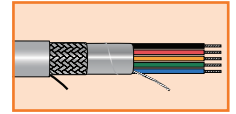
Features:

Nylon ripcord. UV resistant.

Applications:

EIA RS-232 interface. High technology applications in controlled environments. Medical electronics. Point-of-sale equipment.

Computer peripherals. Industrial process controls.



16 AWG (1.23 mm²)

Stranding: 19/0.0117 (19 x 0.29 mm)
Insulation thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5532	2	0.404	10.26	0.063	1.60
5533	3	0.423	10.74	0.063	1.60
5534	4	0.456	11.58	0.063	1.60
5535	5	0.492	12.50	0.063	1.60
5537	7	0.530	13.46	0.063	1.60
5539	9	0.607	15.42	0.063	1.60
5539/12	12	0.675	17.15	0.063	1.60
5539/15	15	0.772	19.61	0.063	1.60
5539/19	19	0.820	20.83	0.083	2.11

14 AWG (2.08 mm²)

Stranding: 41/30 (41 x 0.25 mm)
Insulation thickness: 0.032 (0.81 mm)

Part Number	Conductors	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5542	2	0.434	11.02	0.063	1.60
5543	3	0.456	11.58	0.063	1.60
5544	4	0.492	12.50	0.063	1.60
5547	7	0.575	14.61	0.063	1.60
5549	9	0.668	16.97	0.063	1.60
5549/12	12	0.777	19.74	0.083	2.11
5549/15	15	0.841	21.36	0.083	2.11

Technical Data:

- Temperature:**
- <-30°C to +105°C (AWM).
 - -30°C to +90°C (MTW)

- Rated Voltage:**
- 600V

- Color Code:**
- Chart E.

- Approvals:**
- UL AWM 2501 VW-1
 - CSA AWM I/II A/B FT4
 - UL MTW



Check out our complete inventory of products at www.lapptannehill.com

Multi-Conductor

Xtra-Guard® 1 High Performance 300V Unshielded, Multi-Pair

Construction: Stranded tinned copper conductors.

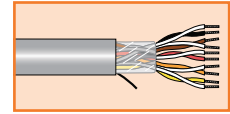
Insulation: Premium PVC insulation. **Jacket:** Premium PVC jacket-slate. Bulk: nine colors available.

Features:

Nylon ripcord. UV resistant.

Applications:

EIA RS-232 interface. High technology applications in controlled environments. Medical electronics. Point-of-sale equipment. Computer peripherals. Industrial process controls.



20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5282C	2	0.298	7.57	0.032	0.81
5283C	3	0.316	8.03	0.032	0.81
5286C	6	0.415	10.54	0.032	0.81
5289C	9	0.487	12.37	0.032	0.81
5289/12C	12	0.545	13.84	0.032	0.81

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5032C	2	0.327	8.31	0.032	0.81
5033C	3	0.348	8.84	0.032	0.81
5036C	6	0.460	11.68	0.032	0.81
5039C	9	0.541	13.74	0.053	1.35
5039/12C	12	0.648	16.46	0.053	1.35



Technical Data:

-  **Temperature:**
- <-30°C to +80°C (AWM).
 - -30°C to +105°C (CM).

-  **Rated Voltage:**
- 300V

-  **Color Code:**
- 24,22 AWG Chart B.
 - 20,18,16 AWG: Chart D.

-  **Approvals:**
- UL CM
 - UL AWM 26464 VW-1
 - CSA CMG FT4

Complete catalog available online at: www.lapptannehill.com



Xtra-Guard® 1 High Performance 300V Foil Shield, Multi-Pair

Construction: Stranded tinned copper conductors. Aluminum/polyester foil shield, with 25% overlap and foil facing inward. Tinned copper drain wire sized the same as cable conductors.

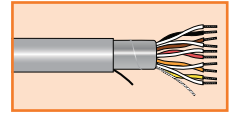
Insulation: Premium PVC insulation. **Jacket:** Premium PVC jacket-slate. Bulk: nine colors available.

Features:

Nylon ripcord. UV resistant.

Applications:

EIA RS-232 interface. High technology applications in controlled environments. Medical electronics. Point-of-sale equipment. Computer peripherals. Industrial process controls.



28 AWG (0.09 mm²)

Stranding: 7/36 (7 x 0.12 mm)
Insulation Thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5938	2	0.187	4.75	0.032	0.81
5939	3	0.196	4.98	0.032	0.81
5940	4	0.211	5.36	0.032	0.81
5941	5	0.228	5.79	0.032	0.81
5942	6	0.246	6.25	0.032	0.81

26 AWG (0.14 mm²)

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5690	2	0.200	5.08	0.032	0.81
5691	3	0.210	5.33	0.032	0.81
5692	4	0.227	5.77	0.032	0.81
5693	5	0.246	6.25	0.032	0.81
5694	6	0.265	6.73	0.032	0.81

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5491C	1	0.160	4.06	0.032	0.81
5492C	2	0.216	5.49	0.032	0.81
5493C	3	0.228	5.79	0.032	0.81
5494C	4	0.247	6.27	0.032	0.81
5495C	5	0.268	6.81	0.032	0.81
5496C	6	0.290	7.37	0.032	0.81
5499C	9	0.336	8.53	0.032	0.81
5499/11C	11	0.361	9.17	0.032	0.81
5499/15C	15	0.405	10.29	0.032	0.81
5499/19C	19	0.433	11.00	0.032	0.81
5499/27C	27	0.516	13.11	0.032	0.81

Technical Data:

- Temperature:**
- <-30°C to +80°C (AWM).
 - -30°C to +105°C (CM).

- Rated Voltage:**
- 300V

- Color Code:**
- 28,26,24,22 AWG: Chart B.
 - 20,18 AWG: Chart A.

- Approvals:**
- UL CM
 - UL AWM 2464 VW-1
 - CSA CMG FT4



Specifications subject to change. For complete specifications and availability visit www.lapptannehill.com



Multi-Conductor

Xtra-Guard® 1 High Performance 300V Foil Shield, Multi-Pair

Construction: Stranded tinned copper conductors. Aluminum/polyester foil shield, with 25% overlap and foil facing inward. Tinned copper drain wire sized the same as cable conductors.

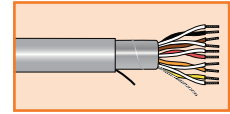
Insulation: Premium PVC insulation. **Jacket:** Premium PVC jacket-slate. Bulk: nine colors available.

Features:

Nylon ripcord. UV resistant.

Applications:

EIA RS-232 interface. High technology applications in controlled environments. Medical electronics. Point-of-sale equipment. Computer peripherals. Industrial process controls.



22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5481C	1	0.172	4.37	0.032	0.81
5482C	2	0.236	5.99	0.032	0.81
5483C	3	0.249	6.32	0.032	0.81
5484C	4	0.271	6.88	0.032	0.81
5485C	5	0.295	7.49	0.032	0.81
5486C	6	0.320	8.13	0.032	0.81
5489C	9	0.372	9.45	0.032	0.81
5489/11C	11	0.400	10.16	0.032	0.81
5489/15C	15	0.451	11.46	0.032	0.81
5489/19C	19	0.483	12.27	0.032	0.81
5489/27C	27	0.619	15.72	0.053	1.35

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5452C	2	0.302	7.67	0.032	0.81
5453C	3	0.320	8.13	0.032	0.81
5456C	6	0.419	10.64	0.032	0.81
5459C	9	0.491	12.47	0.032	0.81
5459/12C	12	0.549	13.94	0.032	0.81
5459/19C	19	0.689	17.50	0.053	1.35

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5373C	3	0.352	8.94	0.032	0.81
5376C	6	0.464	11.79	0.032	0.81

Technical Data:



Temperature:

- <-30°C to +80°C (AWM).
- -30°C to +105°C (CM).



Rated Voltage:

- 300V



Color Code:

- 28,26,24,22 AWG: Chart B.
- 20,18 AWG: Chart A.



Approvals:

- UL CM
- UL AWM 2464 VW-1
- CSA CMG FT4



Please contact your sales representative for detailed information at sales@lapptannehill.com



Xtra-Guard® 1 High Performance 300V Supra-Shield® Foil/Braid, Multi-Pair

Construction: Stranded tinned copper conductors. Supra-Shield foil+braid shield:

Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors. Tinned copper braid, 70% coverage min.

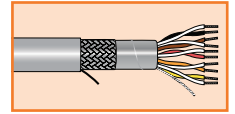
Insulation: Premium PVC insulation. **Jacket:** Premium PVC jacket-slate. Bulk: nine colors available.

Features:

Nylon ripcord. UV resistant.

Applications:

EIA RS-232 interface. High technology applications in controlled environments. Medical electronics. Point-of-sale equipment. Computer peripherals. Industrial process controls.



28 AWG (0.09 mm²)

Stranding: 7/36 (7 x 0.12 mm)
Insulation Thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5943	2	0.211	5.36	0.032	0.81
5944	3	0.220	5.59	0.032	0.81
5945	4	0.235	5.97	0.032	0.81
5946	5	0.252	6.40	0.032	0.81
5947	6	0.270	6.86	0.032	0.81

26 AWG (0.14 mm²)

Stranding: 7/34 (7 x 0.16 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5695	2	0.224	5.69	0.032	0.81
5696	3	0.234	5.94	0.032	0.81
5697	4	0.251	6.38	0.032	0.81
5698	5	0.270	6.86	0.032	0.81
5699	6	0.289	7.34	0.032	0.81

24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5271C	1	0.184	4.67	0.032	0.81
5272C	2	0.240	6.10	0.032	0.81
5273C	3	0.252	6.40	0.032	0.81
5274C	4	0.271	6.88	0.032	0.81
5275C	5	0.292	7.42	0.032	0.81
5276C	6	0.314	7.98	0.032	0.81
5279C	9	0.360	9.14	0.032	0.81
5279/11C	11	0.385	9.78	0.032	0.81
5279/15C	15	0.429	10.90	0.032	0.81
5279/19C	19	0.457	11.61	0.032	0.81
5279/27C	27	0.540	13.72	0.032	0.81
5279/51C	51	0.739	18.77	0.053	1.35

Technical Data:

- Temperature:**
- <-30°C to +80°C (AWM).
 - -30°C to +105°C (CM).

- Rated Voltage:**
- 300V

- Color Code:**
- 28,26,24,22 AWG: Chart B.
 - 20,18 AWG: Chart A.

- Approvals:**
- UL CM
 - UL AWM 2464 VW-1
 - CSA CMG FT4



Multi-Conductor

Xtra-Guard® 1 High Performance 300V Supra-Shield® Foil/Braid, Multi-Pair

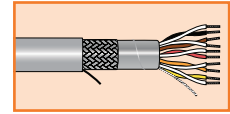
Construction: Stranded tinned copper conductors. Supra-shield foil + braid shield:
Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper braid, 70% coverage min.
Insulation: Premium PVC insulation. **Jacket:** Premium PVC jacket.

Features:

Nylon ripcord. UV resistant.

Applications:

EIA RS-232 interface. High technology applications in controlled environments. Medical electronics. Point-of-sale equipment.
Computer peripherals. Industrial process controls.



22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5121C	1	0.196	4.98	0.032	0.81
5122C	2	0.260	6.60	0.032	0.81
5123C	3	0.273	6.93	0.032	0.81
5124C	4	0.295	7.49	0.032	0.81
5125C	5	0.319	8.10	0.032	0.81
5126C	6	0.344	8.74	0.032	0.81
5129C	9	0.396	10.06	0.032	0.81
5129/11C	11	0.424	10.77	0.032	0.81
5129/15C	15	0.475	12.07	0.032	0.81
5129/19C	19	0.507	12.88	0.032	0.81
5129/27C	27	0.649	16.48	0.053	1.35

Technical Data:

- Temperature:**
- <-30°C to +80°C (AWM).
 - -30°C to +105°C (CM)

- Rated Voltage:**
- 300V

- Color Code:**
- 28,26,24,22 AWG: Chart B.
 - 20,18 AWG: Chart A.

- Approvals:**
- UL CM
 - UL AWM 2464 VW-1
 - CSA CMG FT4.

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5292C	2	0.326	8.28	0.032	0.81
5293C	3	0.344	8.74	0.032	0.81
5296C	6	0.443	11.25	0.032	0.81
5299C	9	0.515	13.08	0.032	0.81
5299/19C	19	0.719	18.26	0.053	1.35

18 AWG (0.81 mm²)

Stranding: 16/30 (16 x 0.25 mm)
Insulation thickness: 0.016 (0.41 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5132C	2	0.355	9.02	0.032	0.81
5133C	3	0.376	9.55	0.032	0.81
5136C	6	0.488	12.40	0.032	0.81
5139C	9	0.611	15.52	0.053	1.35
5139/27C	27	1.004	25.50	0.083	2.11



Xtra-Guard® 1 High Performance 300V Supra-Shield® Foil/Braid, Multi-Pair

Construction: Stranded tinned copper conductors. Supra-Shield foil + braid shield:

Aluminum/polyester/aluminum foil with 25% overlap min. Tinned copper drain wire sized the same as conductors.

Tinned copper braid, 70% coverage min.

Insulation: Premium PVC insulation. **Jacket:** Premium PVC jacket.

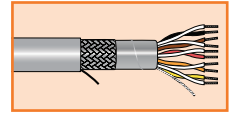
Features:

Nylon ripcord. UV resistant.

Applications:

EIA RS-232 interface. High technology applications in controlled environments. Medical electronics. Point-of-sale equipment.

Computer peripherals. Industrial process controls.



24 AWG (0.23 mm²)

Stranding: 7/32 (7 x 0.20 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5330C	5	0.354	8.99	0.063	1.60
5331C	7	0.376	9.55	0.063	1.60
5332C	12	0.458	11.63	0.063	1.60
5333C	15	0.491	12.47	0.063	1.60
5334C	19	0.519	13.18	0.063	1.60
5335C	27	0.602	15.29	0.063	1.60
5336C	37	0.669	16.99	0.063	1.60

22 AWG (0.35 mm²)

Stranding: 7/30 (7 x 0.25 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5340/2C	2	0.322	8.18	0.063	1.60
5340C	5	0.381	9.68	0.063	1.60
5341C	7	0.406	10.31	0.063	1.60
5342C	12	0.499	12.67	0.063	1.60
5344C	19	0.569	14.45	0.063	1.60
5345C	27	0.669	16.99	0.063	1.60
5346C	37	0.738	18.75	0.063	1.60

20 AWG (0.56 mm²)

Stranding: 7/28 (7 x 0.32 mm)
Insulation thickness: 0.010 (0.25 mm)

Part No.	Pairs	Nominal Diameter		Jacket Thickness	
		Inch	mm	Inch	mm
5350/4C	4	0.388	9.86	0.063	1.60
5350C	5	0.416	10.57	0.063	1.60
5351C	7	0.446	11.33	0.063	1.60
5351/9C	9	0.505	12.83	0.063	1.60
5353C	15	0.597	15.16	0.063	1.60
5354C	19	0.634	16.10	0.063	1.60
5355C	27	0.749	19.02	0.063	1.60



Technical Data:

- Temperature:**
- <-30°C to +80°C (AWM).
 - -30°C to +105°C (CM).

- Rated Voltage:**
- 300V

- Color Code:**
- Chart E

- Approvals:**
- UL CM
 - UL AWM 2343 VW-1
 - CSA CMG FT4

Specifications subject to change. For complete specifications and availability visit www.lapptannehill.com



Conductor Color Coding

Multi-Pair Cables

Chart A

Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination
1	Black +Red	14	Green +Blue	27	Brown +Yellow	40	Slate +Blue
2	Black +White	15	Green +White	28	Violet +Red	41	Slate +Brown
3	Black +Green	16	Green +Brown	29	Violet +White	42	Slate +Yellow
4	Black +Blue	17	Green +Orange	30	Violet +Green	43	Slate +Orange
5	Black +Brown	18	Green +Yellow	31	Violet +Blue	44	Slate +Black
6	Black +Yellow	19	White +Blue	32	Violet +Brown	45	White/Black +Red
7	Black +Orange	20	White +Brown	33	Violet +Yellow	46	White/Black +Green
8	Red +Green	21	White +Orange	34	Violet +Orange	47	White/Black +Blue
9	Red +White	22	White +Yellow	35	Violet +Slate	48	White/Black +Brown
10	Red +Blue	23	Blue +Brown	36	Violet +Black	49	White/Black +Yellow
11	Red +Yellow	24	Blue +Orange	37	Slate +Red	50	White/Black +Orange
12	Red +Brown	25	Blue +Yellow	38	Slate +White	51	White/Black +Violet
13	Red +Orange	26	Brown +Orange	39	Slate +Green		

Chart B

Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination
1	White +Black	35	Orange +Slate	69	White/Red +Green
2	White +Brown	36	Yellow +Green	70	White/Red +Blue
3	White +Red	37	Yellow +Blue	71	White/Red +Violet
4	White +Orange	38	Yellow +Violet	72	White/Red +Slate
5	White +Yellow	39	Yellow +Slate	73	White/Orange +Black
6	White +Green	40	Green +Blue	74	White/Orange +Brown
7	White +Blue	41	Green +Violet	75	White/Orange +Red
8	White +Violet	42	Green +Slate	76	White/Orange +Orange
9	White +Slate	43	Blue +Violet	77	White/Orange +Yellow
10	Black +Brown	44	Blue +Slate	78	White/Orange +Green
11	Black +Red	45	Violet +Slate	79	White/Orange +Blue
12	Black +Orange	46	White/Black +Black	80	White/Orange +Violet
13	Black +Yellow	47	White/Black +Brown	81	White/Orange +Slate
14	Black +Green	48	White/Black +Red	82	White/Yellow +Black
15	Black +Blue	49	White/Black +Orange	83	White/Yellow +Brown
16	Black +Violet	50	White/Black +Yellow	84	White/Yellow +Red
17	Black +Slate	51	White/Black +Green	85	White/Yellow +Orange
18	Brown +Red	52	White/Black +Blue	86	White/Yellow +Yellow
19	Brown +Orange	53	White/Black +Violet	87	White/Yellow +Green
20	Brown +Yellow	54	White/Black +Slate	88	White/Yellow +Blue
21	Brown +Green	55	White/Brown +Black	89	White/Yellow +Violet
22	Brown +Blue	56	White/Brown +Brown	90	White/Yellow +Slate
23	Brown +Violet	57	White/Brown +Red	91	White/Green +Black
24	Brown +Slate	58	White/Brown +Orange	92	White/Green +Brown
25	Red +Orange	59	White/Brown +Yellow	93	White/Green +Red
26	Red +Yellow	60	White/Brown +Green	94	White/Green +Orange
27	Red +Green	61	White/Brown +Blue	95	White/Green +Yellow
28	Red +Blue	62	White/Brown +Violet	96	White/Green +Green
29	Red +Violet	63	White/Brown +Slate	97	White/Green +Blue
30	Red +Slate	64	White/Red +Black	98	White/Green +Violet
31	Orange +Yellow	65	White/Red +Brown	99	White/Green +Slate
32	Orange +Green	66	White/Red +Red	100	White/Blue +Black
33	Orange +Blue	67	White/Red +Orange	101	White/Blue +Brown
34	Orange +Violet	68	White/Red +Yellow	102	White/Blue +Red

Conductor Color Coding

Multi-Conductor Cables

Chart D

No.	Base Color	1st Stripe	2nd Stripe	3rd Stripe	No.	Base Color	1st Stripe	2nd Stripe	3rd Stripe	No.	Base Color	1st Stripe	2nd Stripe	3rd Stripe
1	Black				35	White	Red	Red		69	White	Black	Green	Blue
2	Red				36	White	Red	Green		70	White	Black	Green	Brown
3	White				37	White	Red	Blue		71	White	Black	Green	Orange
4	Green				38	White	Red	Brown		72	White	Black	Green	Slate
5	Orange				39	White	Red	Violet		73	White	Black	Green	Violet
6	Blue				40	White	Green	Black		74	White	Black	Yellow	Blue
7	Brown				41	White	Green	Red		75	White	Black	Yellow	Brown
8	Yellow				42	White	Green	Green		76	White	Black	Yellow	Orange
9	Violet				43	White	Green	Blue		77	White	Black	Yellow	Slate
10	Slate				44	White	Green	Brown		78	White	Black	Yellow	Violet
11	Pink				45	White	Green	Violet		79	White	Black	Blue	Brown
12	Tan				46	White	Blue	Black		80	White	Black	Blue	Orange
13	Red	Green			47	White	Blue	Red		81	White	Black	Blue	Slate
14	Red	Yellow			48	White	Blue	Green		82	White	Black	Blue	Violet
15	Red	Black			49	White	Blue	Blue		83	White	Black	Brown	Orange
16	White	Black			50	White	Blue	Brown		84	White	Black	Brown	Slate
17	White	Red			51	White	Blue	Violet		85	White	Black	Brown	Violet
18	White	Green			52	White	Brown	Black		86	White	Black	Orange	Slate
19	White	Yellow			53	White	Brown	Red		87	White	Black	Orange	Violet
20	White	Blue			54	White	Brown	Green		88	White	Black	Slate	Violet
21	White	Brown			55	White	Brown	Blue		89	White	Red	Black	Green
22	White	Orange			56	White	Brown	Brown		90	White	Red	Black	Yellow
23	White	Slate			57	White	Brown	Violet		91	White	Red	Black	Blue
24	White	Violet			58	White	Violet	Red		92	White	Red	Black	Brown
25	White	Black	Red		59	White	Violet	Green		93	White	Red	Black	Orange
26	White	Black	Green		60	White	Violet	Blue		94	White	Red	Black	Slate
27	White	Black	Yellow		61	White	Black	Red	Green	95	White	Red	Black	Violet
28	White	Black	Blue		62	White	Black	Red	Yellow	96	White	Red	Green	Yellow
29	White	Black	Brown		63	White	Black	Red	Blue	97	White	Red	Green	Blue
30	White	Black	Orange		64	White	Black	Red	Brown	98	White	Red	Green	Brown
31	White	Black	Slate		65	White	Black	Red	Orange	99	White	Red	Green	Orange
32	White	Black	Violet		66	White	Black	Red	Slate	100	White	Red	Green	Slate
33	White	Black	Black		67	White	Black	Red	Violet					
34	White	Red	Black		68	White	Black	Green	Yellow					

Conductor Color Coding

Multi-Conductor Cables

Chart E														
No.	Base Color	1st Stripe	2nd Stripe	3rd Stripe	No.	Base Color	1st Stripe	2nd Stripe	3rd Stripe	No.	Base Color	1st Stripe	2nd Stripe	3rd Stripe
1	Black				35	White	Red	Orange		69	White	Black	Orange	Green
2	Brown				36	White	Red	Yellow		70	White	Black	Orange	Blue
3	Red				37	White	Red	Green		71	White	Black	Orange	Violet
4	Orange				38	White	Red	Blue		72	White	Black	Orange	Slate
5	Yellow				39	White	Red	Violet		73	White	Black	Yellow	Green
6	Green				40	White	Red	Slate		74	White	Black	Yellow	Blue
7	Blue				41	White	Orange	Yellow		75	White	Black	Yellow	Violet
8	Violet				42	White	Orange	Green		76	White	Black	Yellow	Slate
9	Slate				43	White	Orange	Blue		77	White	Black	Green	Blue
10	White				44	White	Orange	Violet		78	White	Black	Green	Violet
11	White	Black			45	White	Orange	Slate		79	White	Black	Green	Slate
12	White	Brown			46	White	Yellow	Green		80	White	Black	Blue	Violet
13	White	Red			47	White	Yellow	Blue		81	White	Black	Blue	Slate
14	White	Orange			48	White	Yellow	Violet		82	White	Black	Violet	Slate
15	White	Yellow			49	White	Yellow	Slate		83	White	Brown	Red	Orange
16	White	Green			50	White	Green	Blue		84	White	Brown	Red	Yellow
17	White	Blue			51	White	Green	Violet		85	White	Brown	Red	Green
18	White	Violet			52	White	Green	Slate		86	White	Brown	Red	Blue
19	White	Slate			53	White	Blue	Violet		87	White	Brown	Red	Violet
20	White	Black	Brown		54	White	Blue	Slate		88	White	Brown	Red	Slate
21	White	Black	Red		55	White	Violet	Slate		89	White	Brown	Orange	Yellow
22	White	Black	Orange		56	White	Black	Brown	Red	90	White	Brown	Orange	Green
23	White	Black	Yellow		57	White	Black	Brown	Orange	91	White	Brown	Orange	Blue
24	White	Black	Green		58	White	Black	Brown	Yellow	92	White	Brown	Orange	Violet
25	White	Black	Blue		59	White	Black	Brown	Green	93	White	Brown	Orange	Slate
26	White	Black	Violet		60	White	Black	Brown	Blue	94	White	Brown	Yellow	Green
27	White	Black	Slate		61	White	Black	Brown	Violet	95	White	Brown	Yellow	Blue
28	White	Brown	Red		62	White	Black	Brown	Slate	96	White	Brown	Yellow	Violet
29	White	Brown	Orange		63	White	Black	Red	Yellow	97	White	Brown	Yellow	Slate
30	White	Brown	Yellow		64	White	Black	Red	Green	98	White	Brown	Green	Blue
31	White	Brown	Green		65	White	Black	Red	Blue	99	White	Brown	Green	Violet
32	White	Brown	Blue		66	White	Black	Red	Violet	100	White	Brown	Green	Slate
33	White	Brown	Violet		67	White	Black	Red	Slate					
34	White	Brown	Slate		68	White	Black	Orange	Yellow					

Xtra-Guard	Application							
	High Temp	Low Temp	UV	Oil/Water/Chemical	Abrasion	Direct Burial	EMI Protection with Supra-Shield	High Flex/Continuous Flex
Xtra-Guard 1	●○○	●○○	●●○	●○○	●○○	NR	●●●	NR
Xtra-Guard 2	●○○	●○○	●●○	●●○	●●●	NR	●●●	NR
Xtra-Guard 3	●○○	●○○	●●○	●●○	●○○	●●●	●●●	NR
Xtra-Guard 4	●●○	●●○	●●○	●●○	●○○	●○○	●●●	NR
Xtra-Guard 5	●●●	●●●	●●●	●●●	●●○	●●○	●●●	NR
Xtra-Guard Flex	●○○	●○○	●○○	●○○ - ●●○	●○○ - ●●○	NR	●●●	●●○ - ●●●

●○○ = Good; ●●○ = Very Good; ●●● = Excellent; NR = Not Recommended



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Multi-Conductor

Unshielded-Audio, Control and Instrumentation Cables Non-Plenum

Construction: 22 AWG Stranded (7x30).

Insulation: PVC. **Jacket:** Chrome PVC.

Applications:

Computers, communications, instrumentation, sound, control, audio, and data transmission.

Each of these cables is designed to protect signal integrity under critical conditions by reducing hum, noise, and crosstalk.

Technical Data:

 **Temperature:**
• 80°C

 **Rated Voltage:**
• 150V

 **Color Code:**
See spec sheet

 **Approvals:**
• UL AWM 2576

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm
22 AWG Stranded (7x30) Tinned Copper Conductors • Conductors Cabled														
PVC Insulation • Chrome PVC Jacket														
	8442*	NEC: CMG CEC: CMG FT4	2	Black, Red	100 U-500 500 U-1000 1000 10000 †	30.5 U-152.4 152.4 U-304.8 304.8 3048.0	2.4 8.0 7.5 15.0 15.0 150.0	1.1 3.7 3.4 6.8 6.8 68.2	.015	.38	.025	.64	.170	4.32
*Twisted pair														
UL AWM Style 2576 (150V 80°C)	8443	NEC: CMG CEC: CMG FT4	3	Black, Red, Green	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	2.7 9.5 9.5 18.0 18.0	1.2 4.3 4.3 8.2 8.2	.010	.25	.032	.81	.172	4.37
	8444	NEC: CMG CEC: CMG FT4	4	See Chart 1	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	3.1 11.5 11.5 22.0 23.0	1.4 5.2 5.2 10.0 10.5	.010	.25	.032	.81	.185	4.70
	8445	NEC: CMG CEC: CMG FT4	5	See Chart 1	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	3.5 13.5 13.5 25.0 26.0	1.6 6.1 6.1 11.4 11.8	.010	.25	.032	.81	.194	4.93
	9430	NEC: CMG CEC: CMG FT4	7	See Chart 1	U-500 500 U-1000 1000	U-152.4 152.4 U-304.8 304.8	17.0 17.0 32.0 34.0	7.7 7.7 14.5 15.9	.010	.25	.032	.81	.214	5.44
	9421	NEC: CMG CEC: CMG FT4	8	See Chart 1	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	4.2 19.0 18.5 36.0 38.0	1.9 8.7 8.4 16.3 17.2	.010	.25	.032	.81	.229	5.82
	9423	NEC: CMG CEC: CMG FT4	9	See Chart 1	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	4.7 21.0 21.5 41.0 43.0	2.1 9.6 9.8 18.6 19.5	.010	.25	.032	.81	.244	6.20
	8456	NEC: CMG CEC: CMG FT4	10	See Chart 1	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	5.0 22.5 23.0 44.0 46.0	2.3 10.2 10.5 20.0 20.9	.010	.25	.032	.81	.264	6.71

[†]Final put-up may vary -10% to +20%. May contain two pieces, minimum length of any one piece is 1500 ft.

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Unshielded-Audio, Control and Instrumentation Cables Non-Plenum

Construction: 22 AWG Stranded (7x30).

Insulation: PVC. **Jacket:** Chrome PVC.

Applications:

Computers, communications, instrumentation, sound, control, audio, and data transmission.

Each of these cables is designed to protect signal integrity under critical conditions by reducing hum, noise, and crosstalk.

Technical Data:

 **Temperature:**
• 80°C

 **Rated Voltage:**
• 150V

 **Color Code:**
See spec sheet

 **Approvals:**
• UL AWM 2576

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm

22 AWG Stranded (7x30) Tinned Copper Conductors • Conductors Cabled (continued)

PVC Insulation • Chrome PVC Jacket

UL AWM Style 2576
(150V 80°C)



8457	NEC:	12	See	100	30.5	5.6	2.5	.010	.25	.032	.81	.272	6.91
	CMG		Chart 1	U-500	U-152.4	25.5	11.6						
	CEC:			500	152.4	26.0	11.8						
	CMG FT4			U-1000	U-304.8	50.0	22.7						
				1000	304.8	52.0	23.6						
8458	NEC:	15	See	100	30.5	7.3	3.3	.010	.25	.040	1.02	.315	8.00
	CMG		Chart 2R	500	152.4	35.5	16.1						
	CEC:			1000	304.8	72.0	32.7						
	CMG FT4												
9431	NEC:	20	See	100	30.5	9.1	4.1	.010	.25	.040	1.02	.345	8.76
	CMG		Chart 2R	500	152.4	48.5	22.0						
	CEC:			1000	304.8	87.0	39.5						
	CMG FT4												
8459	NEC:	25	See	100	30.5	11.1	5.0	.010	.25	.040	1.02	.387	9.83
	CMG		Chart 2R	500	152.4	55.0	25.0						
	CEC:			1000	304.8	109.0	49.5						
	CMG FT4												
9432	NEC:	30	See	100	30.5	12.5	5.7	.010	.25	.040	1.02	.400	10.16
	CMG		Chart 2R	500	152.4	62.5	28.4						
	CEC:			1000	304.8	124.0	56.3						
	CMG FT4												
9433	NEC:	40	See	100	30.5	16.6	7.5	.010	.25	.040	1.02	.455	11.56
	CMG		Chart 2R	500	152.4	83.0	37.7						
	CEC:			1000	304.8	161.0	73.1						
	CMG FT4												
9434	NEC:	50	See	500	152.4	100.5	45.7	.010	.25	.045	1.14	.500	12.70
	CMG		Chart 2R	1000	304.8	206.0	93.5						
	CEC:												
	CMG FT4												

* Twisted Pair

† Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.

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Unshielded-Audio, Control and Instrumentation Cables Non-Plenum

Construction: 20 AWG Stranded (7x28) Tinned Copper Conductors.

Insulation: PVC. **Jacket:** Chrome PVC.

Applications:

Computers, communications, instrumentation, sound, control, audio, and data transmission.

Each of these cables is designed to protect signal integrity under critical conditions by reducing hum, noise, and crosstalk.

Technical Data:



Temperature:
• 80°C



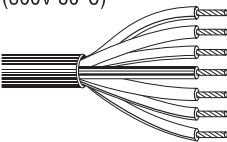
Rated Voltage:
• 300V



Color Code:
See spec sheet



Approvals:
• UL AWM 2464

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm
20 AWG Stranded (7x28) Tinned Copper Conductors • Conductors Cabled														
PVC Insulation • Chrome PVC Jacket														
 UL AWM Style 2464 (300V 80°C)	9444	NEC:	4	See Chart 1	100	30.5	4.0	1.8	.013	.33	.032	.81	.217	5.51
		CMG			U-500	U-152.4	16.5	7.5						
		CEC:			500	152.4	16.5	7.5						
		CMG FT4			U-1000	U-304.8	32.0	14.5						
				1000	304.8	33.0	15.0							
	9445	NEC:	5	See Chart 1	100	30.5	4.4	2.1	.013	.33	.032	.81	.239	6.07
CMG		U-500			U-152.4	20.0	9.1							
CEC:		500			152.4	19.5	8.9							
CMG FT4		U-1000			U-304.8	38.0	17.2							
			1000	304.8	40.0	18.2								
9439	NEC:	7	See Chart 1	100	30.5	5.7	2.6	.013	.33	.032	.81	.260	6.60	
	CMG			U-500	U-152.4	26.0	11.9							
	CEC:			500	152.4	27.0	12.3							
	CMG FT4			U-1000	U-304.8	51.0	23.1							
			1000	304.8	53.0	24.1								
9455	NEC:	9	See Chart 1	100	30.5	7.1	3.2	.013	.33	.035	.89	.317	8.05	
	CMG			500	152.4	35.0	15.9							
	CEC:			1000	304.8	67.0	30.4							
	CMG FT4													
9457	NEC:	12	See Chart 1	100	30.5	9.2	4.2	.013	.33	.035	.89	.338	8.58	
	CMG			500	152.4	45.0	20.4							
	CEC:			1000	304.8	88.0	40.0							
	CMG FT4													
9458	NEC:	15	See Chart 2R	100	30.5	12.6	5.7	.013	.33	.040	1.02	.389	9.88	
	CMG			500	152.4	60.5	27.5							
	CEC:			1000	304.8	118.0	53.6							
	CMG FT4													

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Unshielded-Audio, Control and Instrumentation Cables Non-Plenum

Construction: 18 AWG Stranded (19x30) Tinned Copper Conductors-Conductors Cabled.

Insulation: PVC. **Jacket:** Chrome PVC.

Applications:

Computers, communications, instrumentation, sound, control, audio, and data transmission.

Each of these cables is designed to protect signal integrity under critical conditions by reducing hum, noise, and crosstalk.

Technical Data:



Temperature:
• 60°C



Rated Voltage:
• 300V



Color Code:
See spec sheet

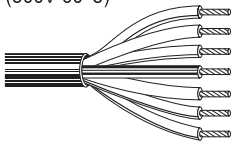


Approvals:
• UL AWM 2598

18 AWG Stranded (19x30) Tinned Copper Conductors • Conductors Cabled

PVC Insulation • Chrome PVC Jacket

UL AWM Style 2598
(300V 60°C)



8489	NEC:	4	See	100	30.5	5.1	2.3	.017	.43	.032	.81	.257	6.53
	CMG		Chart 1	250	76.2	12.0	5.4						
	CEC:			U-500	U-152.4	23.5	10.7						
	CMG FT4			500	152.4	24.0	10.9						
				U-1000	U-304.8	46.0	20.9						
				1000	304.8	48.0	21.8						
8465	NEC:	5	See	100	30.5	6.4	2.9	.017	.43	.033	.84	.282	7.16
	CMG		Chart 1	U-500	U-152.4	29.5	13.5						
	CEC:			500	152.4	30.0	13.6						
	CMG FT4			U-1000	U-304.8	58.0	26.3						
				1000	304.8	60.0	27.4						
8467	NEC:	7	See	100	30.5	8.3	3.8	.017	.43	.037	.94	.314	7.98
	CMG		Chart 1	250	76.2	20.0	9.1						
	CEC:			500	152.4	40.5	18.4						
	CMG FT4			1000	304.8	79.0	35.9						
8469	NEC:	9	See	100	30.5	10.5	4.8	.017	.43	.037	.94	.364	9.25
	CMG		Chart 1	250	76.2	26.0	11.8						
	CEC:			500	152.4	51.5	23.4						
	CMG FT4			1000	304.8	105.0	47.7						
8466	NEC:	12	See	100	30.5	13.2	6.0	.017	.43	.040	1.02	.412	10.46
	CMG		Chart 2R	250	76.2	32.5	14.8						
	CEC:			500	152.4	66.0	30.0						
	CMG FT4			1000	304.8	131.0	59.5						
8468	NEC:	15	See	100	30.5	17.9	8.1	.017	.43	.045	1.14	.500	12.70
	CMG		Chart 2R	500	152.4	89.5	40.6						
	CEC:			1000	304.8	175.0	79.5						
	CMG FT4												

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Multi-Conductor

Unshielded-Audio, Control and Instrumentation Cables Non-Plenum

Construction: 16 AWG Stranded (19x29) Tinned Copper Conductors-Conductors Cabled.

Insulation: PVC. **Jacket:** Chrome PVC.

Applications:

Computers, communications, instrumentation, sound, control, audio, and data transmission.

Each of these cables is designed to protect signal integrity under critical conditions by reducing hum, noise, and crosstalk.

Technical Data:



Temperature:
• 80°C



Rated Voltage:
• 600V



Color Code:
See spec sheet



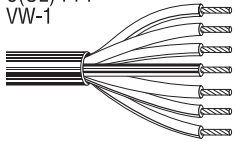
Approvals:
• C(UL) FT4 VW-1

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm

16 AWG Stranded (19x29) Tinned Copper Conductors • Conductors Cabled (continued)

PVC Insulation • Chrome PVC Jacket

600V RMS 80°C
C(UL) FT4
VW-1



8620	—	4	See Chart 2	100	30.5	8.9	4.0	.031	.79	.042	1.07	.376	9.55
				500	152.4	44.0	20.0						
				1000	304.8	88.0	40.0						
9620	—	5	See Chart 2	100	30.5	11.0	5.0	.031	.79	.042	1.07	.411	10.44
				500	152.4	53.5	24.3						
				1000	304.8	109.0	49.5						
8621	—	7	See Chart 2R	100	30.5	13.2	6.0	.031	.79	.045	1.14	.458	11.63
				500	152.4	73.5	33.4						
				1000	304.8	143.0	65.0						
9721	—	8	See Chart 2R	100	30.5	27.3	12.4	.031	.79	.045	1.14	.496	12.60
				500	152.4	136.5	62.0						
				1000	304.8	269.0	122.1						
9621	—	9	See Chart 2R	100	30.5	17.0	7.8	.031	.79	.045	1.14	.533	13.54
				500	152.4	94.0	42.7						
				1000	304.8	181.0	82.2						
8622	—	12	See Chart 2R	100	30.5	27.0	12.3	.031	.79	.060	1.52	.627	15.93
				500	152.4	126.5	57.4						
				1000	304.8	251.0	114.0						
8623	—	15	See Chart 2R	100	30.5	32.5	14.8	.031	.79	.060	1.52	.694	17.63
				500	152.4	155.5	70.6						
				1000	304.8	314.0	142.6						
8624	—	19	See Chart 2R	100	30.5	36.8	16.7	.031	.79	.065	1.65	.740	18.80
				500	152.4	178.5	81.0						
				1000	304.8	361.0	164.0						
9622	—	25	See Chart 2R	100	30.5	49.0	22.2	.031	.79	.065	1.65	.879	22.33
				500	152.4	236.0	107.1						
				1000	304.8	480.0	217.9						

[†]Spools and/or UnReel® cartons are one piece, but length may vary ± 10% for spools and ± 5% for UnReel from length shown.

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Overall Beldfoil® Shield Computer Cables for EIA RS-232 Applications

Construction: 24 AWG Stranded (7x32) TC Conductors-Conductors Cabled-Overall Beldfoil Shield (100% Coverage) 24 AWG Stranded TC Drain Wire.

Insulation: Semi-rigid PVC. **Jacket:** Chrome PVC.

Applications:

Computers, communications, instrumentation, sound, control, audio, and data transmission.

Each of these cables is designed to protect signal integrity under critical conditions by reducing hum, noise, and crosstalk.

Technical Data:

 **Temperature:**
• 80°C

 **Rated Voltage:**
• 300V

 **Color Code:**
See spec sheet

 **Approvals:**
• UL AWM Style 2464

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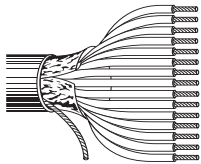
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Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	pF/ Ft.	pF/ m	** pF/ Ft.	** pF/ m

24 AWG Stranded (7x32) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • 24 AWG Stranded TC Drain Wire

Semi-rigid PVC Insulation • Chrome PVC Jacket

UL AWM Style 2464
(300V 80°C)



9533	NEC: CMG CEC: CMG FT4	3	See Chart 1	100	30.5	2.7	1.2	.010	.25	.032	.81	.162	4.11	33	108	65	213
				U-500	U-152.4	9.5	4.3										
				500	152.4	9.0	4.1										
				U-1000	U-304.8	18.0	8.2										
				1000	304.8	18.0	8.2										
9534	NEC: CMG CEC: CMG FT4	4	See Chart 1	100	30.5	3.0	1.4	.010	.25	.032	.81	.184	4.67	33	108	65	213
				U-500	U-152.4	11.0	5.0										
				500	152.4	11.5	5.2										
				U-1000	U-304.8	21.0	9.5										
				1000	304.8	22.0	10.0										
9535	NEC: CMG CEC: CMG FT4	5	See Chart 1	100	30.5	3.2	1.5	.010	.25	.032	.81	.189	4.80	33	108	65	213
				U-500	U-152.4	12.0	5.4										
				500	152.4	11.0	5.0										
				U-1000	U-304.8	23.0	10.4										
				1000	304.8	22.0	10.0										
9536	NEC: CMG CEC: CMG FT4	6	See Chart 1	100	30.5	3.6	1.6	.010	.25	.032	.81	.209	5.31	33	108	65	213
				U-500	U-152.4	14.5	6.6										
				500	152.4	12.5	5.7										
				U-1000	U-304.8	27.0	12.3										
				1000	304.8	29.0	13.2										
9537	NEC: CMG CEC: CMG FT4	7	See Chart 1	100	30.5	3.7	1.7	.010	.25	.032	.81	.209	5.31	33	108	65	213
				U-500	U-152.4	15.0	6.8										
				500	152.4	13.5	6.2										
				U-1000	U-304.8	29.0	13.2										
				1000	304.8	30.0	13.7										
9538	NEC: CMG CEC: CMG FT4	8	See Chart 1	100	30.5	3.8	1.7	.010	.25	.032	.81	.224	5.69	33	108	65	213
				U-500	U-152.4	17.0	7.7										
				500	152.4	15.0	6.8										
				U-1000	U-304.8	32.0	14.6										
				1000	304.8	34.0	15.4										
9539	NEC: CMG CEC: CMG FT4	9	See Chart 1	100	30.5	4.2	1.9	.010	.25	.032	.81	.244	6.20	30	98	55	180
				U-500	U-152.4	20.0	9.1										
				500	152.4	17.0	7.8										
				U-1000	U-304.8	37.0	16.9										
				1000	304.8	38.0	17.3										
9540	NEC: CMG CEC: CMG FT4	10	See Chart 1	100	30.5	4.3	2.0	.010	.25	.032	.81	.244	6.20	30	98	55	180
				U-500	U-152.4	19.5	8.9										
				500	152.4	18.0	8.2										
				U-1000	U-304.8	38.0	17.2										
				1000	304.8	36.0	16.4										
9541	NEC: CMG CEC: CMG FT4	15	See Chart 2R	100	30.5	5.9	2.7	.010	.25	.032	.81	.284	7.21	30	98	55	180
				U-500	U-152.4	27.5	12.5										
				500	152.4	28.0	12.7										
				U-1000	U-304.8	54.0	24.5										
				1000	304.8	56.0	25.4										
9542	NEC: CMG CEC: CMG FT4	20	See Chart 2R	100	30.5	7.3	3.3	.010	.25	.032	.81	.314	7.98	30	98	55	180
				U-500	U-152.4	34.0	15.4										
				500	152.4	35.5	16.1										
				1000	304.8	69.0	31.3										
9543	NEC: CMG CEC: CMG FT4	25	See Chart 2R	100	30.5	8.7	4.0	.010	.25	.032	.81	.339	8.61	30	98	55	180
				500	152.4	44.0	20.0										
				1000	304.8	86.0	39.0										
9544	NEC: CMG CEC: CMG FT4	30	See Chart 2R	100	30.5	10.3	4.7	.010	.25	.040	1.02	.380	9.65	30	98	55	180
				500	152.4	51.5	23.4										
				1000	304.8	102.0	46.3										
9545	NEC: CMG CEC: CMG FT4	40	See Chart 2R	100	30.5	13.5	6.1	.010	.25	.040	1.02	.430	10.92	30	98	55	180
				500	152.4	65.0	29.5										
				1000	304.8	130.0	59.0										
9546	NEC: CMG CEC: CMG FT4	50	See Chart 2R	100	30.5	16.4	7.4	.010	.25	.045	1.14	.490	12.45	30	98	55	180
				500	152.4	81.5	37.0										
				1000	304.8	168.0	76.3										

TC = Tinned Copper

*Capacitance between conductors. **Capacitance between one conductor and other conductors connected to shield.

Multi-Conductor

Overall Beldfoil® Shield Audio, Control and Instrumentation Cables Non-Plenum

Construction: 22 AWG Stranded (7x30) TC Conductors-Conductor Cabled-Overall Beldfoil Shield (100% Coverage) 22 AWG Stranded TC Drain Wire.
Insulation: Polypropylene. **Jacket:** Brown PVC.

Applications:

Computers, communications, instrumentation, sound, control, audio, and data transmission.

Each of these cables is designed to protect signal integrity under critical conditions by reducing hum, noise, and crosstalk.

Technical Data:

 **Temperature:**
• 60°C

 **Rated Voltage:**
• 300V

 **Color Code:**
See spec sheet

 **Approvals:**
See spec sheet

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

22 AWG Stranded (7x30) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • 22 AWG Stranded TC Drain Wire

Polypropylene Insulation • Brown PVC Jacket

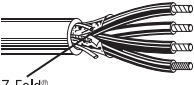
 Z-Fold®	300V RMS	9770	NEC:	3	Black,	U-500	U-152.4	9.0	4.1	.008	.20	.020	.51	.145	3.68	32	105	60	197
			CM		Red,	500	152.4	9.0	4.1										
			CEC:		White	U-1000	U-304.8	18.0	8.2										
			CM			1000	304.8	17.0	7.7										

Polyethylene Insulation • Chrome PVC Jacket

 Shorting Fold	UL AWM Style 2093 (300V 60°C)	8771	NEC:	3	Black,	250	76.2	6.3	2.8	.016	.41	.033	.84	.199	5.05	23	75	41	134
			CM		Red,	U-500	U-152.4	12.0	5.5										
			CEC:		Clear	500	152.4	12.0	5.5										
			CM			U-1000	U-304.8	23.0	10.4										
						1000	304.8	24.0	10.9										
						10000†	3048.0	240.0	109.1										

22 AWG Stranded (19x34) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • 23 and 25 AWG Drain Wires††

Polyethylene Insulation • White PVC Jacket

 Z-Fold®	UL AWM Style 2094 (300V 75°C)	8729	NEC:	4	Black,	U-500	U-152.4	23.0	10.5	.016	.41	.051	1.30	.257	6.53	22	72	42	138
			CM, CL3		Red,	500	152.4	21.5	9.8										
			CEC:		Green,	U-1000	U-304.8	45.0	20.4										
			CM		Clear	1000	304.8	47.0	21.4										

†† 8729 has three 23 AWG solid and one 25 AWG stranded tinned copper-coated steel drain wires.

20 AWG Stranded (7x28) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • 20 AWG Stranded TC Drain Wire

Polyethylene Insulation • Chrome PVC Jacket

 Z-Fold®	UL AWM Style 2093 (300V 60°C)	8772	NEC:	3	Black,	U-500	U-152.4	16.0	7.3	.016	.41	.033	.84	.218	5.54	27	89	51	167
			CM		Red,	500	152.4	16.0	7.3										
			CEC:		Clear	U-1000	U-304.8	31.0	14.1										
			CM			1000	304.8	32.0	14.5										

TC = Tinned Copper

*Capacitance between conductors.

**Nominal capacitance conductor to conductor and shield.

†Final put-up may vary -10% to +20%. May contain two pieces, minimum length of any one piece is 1500 ft.

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Overall Beldfoil® Shield Audio, Control and Instrumentation Cables

Construction: 18 AWG Stranded (16x30) TC Conductors-Conductors Cabled-Overall Beldfoil Shield (100% Coverage) 20 AWG Stranded TC Drain Wire.
Insulation: Polyethylene. **Jacket:** Chrome PVC.

Applications:

Computers, communications, instrumentation, sound, control, audio, and data transmission.

Each of these cables is designed to protect signal integrity under critical conditions by reducing hum, noise, and crosstalk.

Technical Data:

 **Temperature:**
• 60°C

 **Rated Voltage:**
• 300V

 **Color Code:**
See spec sheet

 **Approvals:**
• UL AWM Style 2093

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
18 AWG Stranded (16x30) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • 20 AWG Stranded TC Drain Wire																		
Polyethylene Insulation • Chrome PVC Jacket																		
UL AWM Style 2093 (300V 60°C)	8770	NEC: CM CEC: CM	3	Black, Red, Clear	U-500 500 U-1000 1000 10000††	U-152.4 152.4 U-304.8 304.8 3048.0	20.0 20.5 38.0 40.0 430.0	9.1 9.3 17.2 18.2 195.5	.018	.46	.033	.84	.246	6.25	24	79	48	157
																		

Shorting Fold

TC = Tinned Copper

* Capacitance between conductors.

**Capacitance between one conductor and other conductors connected to shield.

††Final put-up may vary -10% to +20%. May contain 2 pieces. Min. length 1500 ft.

Overall Beldfoil® Shield Audio, Control and Instrumentation Cables

Construction: 18 AWG Stranded (19x30) TC Conductors-Conductors Cabled-Overall Beldfoil Shield (100% Coverage) 20 AWG Stranded TC Drain Wire.
Insulation: Semi-rigid PVC. **Jacket:** Chrome PVC.

Applications:

Computers, communications, instrumentation, sound, control, audio, and data transmission.

Each of these cables is designed to protect signal integrity under critical conditions by reducing hum, noise, and crosstalk.

Technical Data:

 **Temperature:**
• 80°C

 **Rated Voltage:**
• 300V

 **Color Code:**
See spec sheet

 **Approvals:**
• UL AWM Style 2464

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
18 AWG Stranded (19x30) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • 20 AWG Stranded TC Drain Wire																		
Semi-rigid PVC Insulation • Chrome PVC Jacket																		
UL AWM Style 2464 (300V 80°C)	9418	NEC: CMG CEC: CMG FT4	4	Red, Green, Black, White	100 U-500 500 U-1000 1000 10000††	30.5 U-152.4 152.4 U-304.8 304.8 3048.0	5.6 18.0 24.5 35.0 52.0 510.0	2.6 8.2 11.1 16.0 23.7 231.3	.010	.25	.035	.89	.245	6.22	70	230	120	394
																		

Z-Fold®

TC = Tinned Copper

* Capacitance between conductors.

**Capacitance between one conductor and other conductors connected to shield.

††Final put-up may vary -10% to +20%. May contain 2 pieces. Min. length 1500 ft.

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Specifications subject to change. For complete specifications and availability visit www.lapptannehill.com

Overall Foil/Braid Shield Computer Cables for EIA RS-232 Applications

Construction: 24 AWG Stranded (7x32) TC Conductors-Overall Beldfoil® (100% Coverage) + TC Braid Shield (65% Coverage).

Insulation: Semi-rigid PVC. **Jacket:** Chrome PVC.

Applications:

Computers, communications, instrumentation, sound, control, audio, and data transmission.

Each of these cables is designed to protect signal integrity under critical conditions by reducing hum, noise, and crosstalk.

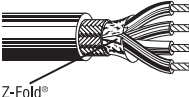
Technical Data:

 Temperature: • 80°C	 Rated Voltage: • 300V	 Color Code: See spec sheet	 Approvals: • UL AWM Style 2464
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Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Cond.	Color Code	Standard Lengths		Standard Unit Weight		Nominal OD		Nominal DCR		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Cond.	Shield	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
24 AWG Stranded (7x32) TC Conductors • Overall Beldfoil® (100% Coverage) + TC Braid Shield (65% Coverage)																
Semi-rigid PVC Insulation • Chrome PVC Jacket																
 Z-Fold®	9608	NEC: CMG CEC: CMG FT4	3	See Chart 1	100 500 1000	30.5 152.4 304.8	3.1 12.0 23.0	1.4 5.4 10.4	.190 4.83		25.0Ω/M' 82.0Ω/km	9.8Ω/M' 32.2Ω/km	35	115	65	213
	9609	NEC: CMG CEC: CMG FT4	4	See Chart 1	100 500 1000	30.5 152.4 304.8	3.5 13.5 26.0	1.6 6.1 11.8	.200 5.08		25.0Ω/M' 82.0Ω/km	9.8Ω/M' 32.2Ω/km	35	115	65	213
	9610	NEC: CMG CEC: CMG FT4	5	See Chart 1	100 500 1000	30.5 152.4 304.8	4.0 16.0 32.0	1.8 7.3 14.5	.215 5.46		25.0Ω/M' 82.0Ω/km	6.5Ω/M' 21.3Ω/km	35	115	65	213
	9611	NEC: CMG CEC: CMG FT4	6	See Chart 1	100 500 1000	30.5 152.4 304.8	4.2 17.0 34.0	1.9 7.7 15.4	.225 5.72		25.0Ω/M' 82.0Ω/km	7.0Ω/M' 23.0Ω/km	30	98.4	55	180
	9612	NEC: CMG CEC: CMG FT4	7	See Chart 1	100 500 1000	30.5 152.4 304.8	4.2 18.5 38.0	1.9 8.4 17.3	.225 5.72		25.0Ω/M' 82.0Ω/km	6.9Ω/M' 22.6Ω/km	30	98.4	55	180
	9613	NEC: CMG CEC: CMG FT4	8	See Chart 1	100 500 1000	30.5 152.4 304.8	4.5 21.0 41.0	2.0 9.5 18.6	.240 6.10		25.0Ω/M' 82.0Ω/km	7.3Ω/M' 23.9Ω/km	30	98.4	55	180
	9614	NEC: CMG CEC: CMG FT4	9	See Chart 1	100 500 1000	30.5 152.4 304.8	4.8 22.0 44.0	2.2 10.0 20.0	.253 6.43		25.0Ω/M' 82.0Ω/km	7.5Ω/M' 24.6Ω/km	30	98.4	55	180
	9615	NEC: CMG CEC: CMG FT4	10	See Chart 1	100 500 1000	30.5 152.4 304.8	5.4 25.0 50.0	2.5 11.4 22.7	.270 6.86		25.0Ω/M' 82.0Ω/km	6.9Ω/M' 22.6Ω/km	30	98.4	55	180
	9616	NEC: CMG CEC: CMG FT4	15	See Chart 2R	100 500 1000	30.5 152.4 304.8	6.6 31.5 63.0	3.0 14.3 28.6	.300 7.62		25.0Ω/M' 82.0Ω/km	6.9Ω/M' 22.6Ω/km	30	98.4	55	180
	9617	NEC: CMG CEC: CMG FT4	25	See Chart 2R	100 500 1000	30.5 152.4 304.8	10.1 49.5 100.0	4.6 22.5 45.4	.370 9.40		25.0Ω/M' 82.0Ω/km	5.1Ω/M' 16.7Ω/km	30	98.4	55	180
9618	NEC: CMG CEC: CMG FT4	37	See Chart 2R	100 500 1000	30.5 152.4 304.8	13.7 66.5 135.0	6.2 30.2 61.3	.411 10.43		25.0Ω/M' 82.0Ω/km	4.4Ω/M' 14.4Ω/km	30	98.4	55	180	
9619	NEC: CMG CEC: CMG FT4	50	See Chart 2R	100 500 1000	30.5 152.4 304.8	17.2 93.0 182.0	7.8 42.2 82.6	.485 12.32		25.0Ω/M' 82.0Ω/km	4.3Ω/M' 14.1Ω/km	30	98.4	55	180	

DCR = DC Resistance • TC = Tinned Copper

* Capacitance between conductors.

** Nominal capacitance conductor to conductor and shield.



Individually Shielded Low-Capacitance 100 Ohm Computer Cables for EIA RS-422, and Digital Audio Applications

Construction: 24 AWG Stranded (7x32) TC Conductors-Twisted Pairs-Individually Shielded w/Beldfoil® (100% Coverage) 24 AWG Stranded TC Drain Wire.
Insulation: Datalene® Insulation. **Jacket:** Chrome PVC.

Applications:

Computers, communications, instrumentation, sound, control, audio, and data transmission.

Each of these cables is designed to protect signal integrity under critical conditions by reducing hum, noise, and crosstalk.

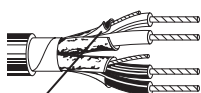
Technical Data:

 **Temperature:**
• 60°C

 **Rated Voltage:**
• 300V

 **Color Code:**
See spec sheet

 **Approvals:**
• UL AWM Style 2493

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Nom. DCR		Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance			
					Ft.	m	Lbs.	kg	Cond.	Shield	Inch	mm			* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m
24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Individually Shielded w/Beldfoil® (100% Coverage) • 24 AWG Stranded TC Drain Wire																		
Datalene® Insulation • Chrome PVC Jacket																		
 Z-Fold®	9729	NEC:	2	See Chart 3	100	30.5	4.3	2.0	24.0Ω/M'	15.0Ω/M'	.266	6.76	100	76%	12.5	41.0	23.2	76.1
		CM			500	152.4	20.5	9.3	78.7Ω/km	49.2Ω/km								
		CEC:			1000	304.8	39.0	17.7										
		CM			10000†	3048.0	390.0	177.8										
	9730	NEC:	3	See Chart 3	100	30.5	5.1	2.3	24.0Ω/M'	15.0Ω/M'	.334	8.48	100	76%	12.5	41.0	23.2	76.1
		CM			500	152.4	24.5	11.1	78.7Ω/km	49.2Ω/km								
		CEC:			1000	304.8	46.0	20.9										
		CM			10000†	3048.0	520.0	236.4										
	9728	NEC:	4	See Chart 3	100	30.5	6.0	2.7	24.0Ω/M'	15.0Ω/M'	.363	9.22	100	76%	12.5	41.0	23.2	76.1
		CM			500	152.4	29.0	13.2	78.7Ω/km	49.2Ω/km								
CEC:		1000			304.8	51.0	23.1											
CM																		
9731	NEC:	6	See Chart 3	100	30.5	7.4	3.4	24.0Ω/M'	15.0Ω/M'	.421	10.69	100	76%	12.5	41.0	23.2	76.1	
	CM			500	152.4	42.0	19.1	78.7Ω/km	49.2Ω/km									
	CEC:			1000	304.8	83.0	37.7											
	CM																	
9732	NEC:	9	See Chart 3	100	30.5	9.9	4.5	24.0Ω/M'	15.0Ω/M'	.488	12.40	100	76%	12.5	41.0	23.2	76.1	
	CM			500	152.4	57.0	26.0	78.7Ω/km	49.2Ω/km									
	CEC:			1000	304.8	106.0	48.1											
	CM																	
9733	NEC:	11	See Chart 3	500	152.4	75.0	34.1	24.0Ω/M'	15.0Ω/M'	.575	14.61	100	76%	12.5	41.0	23.2	76.1	
	CM							78.7Ω/km	49.2Ω/km									
	CEC:																	
	CM																	
9734	NEC:	12	See Chart 3	500	152.4	79.5	36.1	24.0Ω/M'	15.0Ω/M'	.575	14.61	100	76%	12.5	41.0	23.2	76.1	
	CM			1000	304.8	154.0	70.0	78.7Ω/km	49.2Ω/km									
	CEC:																	
	CM																	
9735	NEC:	15	See Chart 3	500	152.4	95.0	43.2	24.0Ω/M'	15.0Ω/M'	.639	16.23	100	76%	12.5	41.0	23.2	76.1	
	CM			1000	304.8	185.0	84.1	78.7Ω/km	49.2Ω/km									
	CEC:																	
	CM																	
9736	NEC:	17	See Chart 3	500	152.4	103.5	47.0	24.0Ω/M'	15.0Ω/M'	.671	17.04	100	76%	12.5	41.0	23.2	76.1	
	CM			1000	304.8	210.0	95.5	78.7Ω/km	49.2Ω/km									
	CEC:																	
	CM																	
9737	NEC:	19	See Chart 3	1000	304.8	231.0	105.0	24.0Ω/M'	15.0Ω/M'	.671	17.04	100	76%	12.5	41.0	23.2	76.1	
	CM							78.7Ω/km	49.2Ω/km									
	CEC:																	
	CM																	
9738	NEC:	27	See Chart 3	1000	304.8	334.0	151.8	24.0Ω/M'	15.0Ω/M'	.797	20.24	100	76%	12.5	41.0	23.2	76.1	
	CM							78.7Ω/km	49.2Ω/km									
	CEC:																	
	CM																	

DCR = DC Resistance • TC = Tinned Copper *Capacitance between conductors. **Capacitance between one conductor and other conductors connected to shield.

† Final put-up length may vary -10% to +20% from length shown. May contain 2 pieces. Minimum length of any one piece is 1500 ft.

Datalene insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling.

Physical properties include good crush resistance and light weight.

BELDEN DISTRIBUTED BY **wireXpress**

Multi-Conductor

COLOR CHART 1

- 1 Black & Red
- 2 Black & White
- 3 Black & Green
- 4 Black & Blue
- 5 Black & Yellow
- 6 Black & Brown
- 7 Black & Orange
- 8 Red & White
- 9 Red & Green
- 10 Red & Blue
- 11 Red & Yellow
- 12 Red & Brown
- 13 Red & Orange
- 14 Green & White
- 15 Green & Blue
- 16 Green & Yellow
- 17 Green & Brown
- 18 Green & Orange
- 19 White & Blue
- 20 White & Yellow
- 21 White & Brown
- 22 White & Orange
- 23 Blue & Yellow
- 24 Blue & Brown
- 25 Blue & Orange
- 26 Brown & Yellow
- 27 Brown & Orange
- 28 Orange & Yellow
- 29 Purple & Orange
- 30 Purple & Red
- 31 Purple & White
- 32 Purple & Green
- 33 Purple & Blue
- 34 Purple & Yellow
- 35 Purple & Brown
- 36 Purple & Black
- 37 Gray & White

COLOR CHART 2

- 1 Black
- 2 White
- 3 Red
- 4 Green
- 5 Orange
- 6 Blue
- 7 White/Black Stripe
- 8 Red/Black Stripe
- 9 Green/Black Stripe
- 10 Orange/Black Stripe
- 11 Blue/Black Stripe
- 12 Black/White Stripe
- 13 Red/White Stripe
- 14 Green/White Stripe
- 15 Blue/White Stripe
- 16 Black/Red Stripe
- 17 White/Red Stripe
- 18 Orange/Red Stripe
- 19 Blue/Red Stripe
- 20 Red/Green Stripe
- 21 Orange/Green Stripe
- 22 Black/White/Red
- 23 White/Black/Red
- 24 Red/Black/White
- 25 Green/Black/White
- 26 Orange/Black/White
- 27 Blue/Black/White
- 28 Black/Red/Green
- 29 White/Red/Green
- 30 Red/Black/Green
- 31 Green/Black/Orange
- 32 Orange/Black/Green
- 33 Blue/White/Orange
- 34 Black/White/Orange
- 35 White/Red/Orange
- 36 Orange/White/Blue
- 37 White/Red/Blue
- 38 Black/White/Green
- 39 White/Black/Green
- 40 Red/White/Green
- 41 Green/White/Blue
- 42 Orange/Red/Green
- 43 Blue/Red/Green
- 44 Black/White/Blue
- 45 White/Black/Blue
- 46 Red/White/Blue
- 47 Green/Orange/Red
- 48 Orange/Red/Blue
- 49 Blue/Orange/Red
- 50 Black/Orange/Red

BELDEN
SENDING ALL THE RIGHT SIGNALS

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Multi-Conductor, Unshielded

Construction: 22 AWG fully annealed, stranded tinned copper per ASTM B-33.

Insulation: Premium-grade, color-coded S-R PVC per UL 1061. **Jacket:** PVC, Gray.

Features:

Easy to terminate. Excellent electrical properties. Tinned conductors provide excellent corrosion resistance. Assists soldering applications.

Applications:

Public address systems. Intercoms. Internal telephones. Remote control circuits. Suitable for EIA RS-232 applications.



CATALOG NUMBER	NO. OF COND.	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOM. JACKET THICKNESS		NOMINAL O.D.		COLOR CODE	NOM. C-C CAP.* pF/ft
				INCHES	mm	INCHES	mm	INCHES	mm		
C6348A†	2	22	7/30	0.010	0.25	0.015	0.38	0.130	3.30	Black/Red	24.5
C4062A	3	22	7/30	0.010	0.25	0.032	0.81	0.176	4.47	Black/Red/Green	24.5
C4063A	4	22	7/30	0.010	0.25	0.032	0.81	0.189	4.80	1	24.5
C4064A	5	22	7/30	0.010	0.25	0.032	0.81	0.203	5.16	1	24.5
C4066A	6	22	7/30	0.010	0.25	0.032	0.81	0.218	5.54	1	24.5
C4088A	7	22	7/30	0.010	0.25	0.032	0.81	0.205	5.54	1	24.5
C4065A	8	22	7/30	0.010	0.25	0.032	0.81	0.230	5.94	1	24.5
C4070A	9	22	7/30	0.010	0.25	0.032	0.81	0.249	6.32	1	24.5
C4071A	10	22	7/30	0.010	0.25	0.032	0.81	0.268	6.81	1	24.5
C4067A	12	22	7/30	0.010	0.25	0.032	0.81	0.276	7.01	1	24.5
C4073A	15	22	7/30	0.010	0.25	0.032	0.81	0.303	7.70	2	24.5
C4075A	20	22	7/30	0.010	0.25	0.032	0.81	0.334	8.48	2	24.5
C4076A	25	22	7/30	0.010	0.25	0.032	0.81	0.368	9.35	2	24.5
C4077A	30	22	7/30	0.010	0.25	0.032	0.81	0.389	9.88	2	24.5
C4078A	40	22	7/30	0.010	0.25	0.032	0.81	0.434	11.02	2	24.5
C4079A	50	22	7/30	0.010	0.25	0.032	0.81	0.489	12.42	2	24.5

*Capacitance between conductors

†CM-CSA CMG Only

Color Code Chart 1 - For cables up to and including 12 conductors

NO. OF COND.	COLOR	NO. OF COND.	COLOR
1	Black	7	Orange
2	White	8	Yellow
3	Red	9	Violet
4	Green	10	Gray
5	Brown	11	Pink
6	Blue	12	Tan

Color Code Chart 2 Per ICEA - For cables of 15 thru 50 conductors

NO. OF COND.	COLOR	NO. OF COND.	COLOR	NO. OF COND.	COLOR	NO. OF COND.	COLOR
1	Black	14	Green/White	27	Blue/Black/White	39	White/Black/Green
2	White	15	Blue/White	28	Black/Red/Green	40	Red/White/Green
3	Red	16	Black/Red	29	White/Red/Green	41	Green/White/Blue
4	Green	17	White/Red	30	Red/Black/Green	42	Orange/Red/Green
5	Orange	18	Orange/Red	31	Green/Black/Orange	43	Blue/Red/Green
6	Blue	19	Blue/Red	32	Orange/Black/Green	44	Black/White/Blue
7	White/Black	20	Red/Green	33	Blue/White/Orange	45	White/Black/Blue
8	Red/Black	21	Orange/Green	34	Black/White/Orange	46	Red/White/Blue
9	Green/Black	22	Black/White/Red	35	White/Red/Orange	47	Green/Orange/Red
10	Orange/Black	23	White/Black/Red	36	Orange/White/Blue	48	Orange/Red/Blue
11	Blue/Black	24	Red/Black/White	37	White/Red/Blue	49	Blue/Red/Orange
12	Black/White	25	Green/Black/White	38	Black/White/Green	50	Black/Orange/Red
13	Red/White	26	Orange/Black/White				

CAROL BRAND



Designed to Meet
UL Vertical Tray
Flame Test
Underwriters Laboratories Inc.



General Cable



Multi-Conductor

Speaker Wire

Construction: 24 thru 12 AWG fully annealed one bare, one tin stranded copper per ASTM B-174.

Insulation: Premium-grade PVC.

Applications:

- Digital audio
- Hi-fi and stereo speaker wire
- Jukeboxes
- Not for in-wall use
- Home theater

UL Listed or AWM Style 1007



CATALOG NUMBER	NUMBER OF COND.	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOMINAL O.D.	
				INCHES	mm	INCHES	mm
C1356	2	24	7/32	0.016	0.41	0.058x0.117	1.47x2.79
C1362	2	22	7/30	0.020	0.51	0.070x0.145	1.77x3.68
C1360	2	20	10/30	0.020	0.51	0.085x0.160	2.16x4.06
C1357	2	18	16/30	0.020	0.51	0.083x0.181	2.11x4.60
C1358	2	16	26/30	0.020	0.51	0.105x0.210	2.67x5.33
C1361	2	14	41/30	0.025	0.64	0.125x0.235	3.18x5.69
C1363	2	12	65/30	0.025	0.64	0.154x0.323	3.91x8.20

Color Code Chart

ORDERING SUFFIX	COLORS
01	Black
02	White
08	Brown
10	Gray
90	Clear



CATALOG NUMBER	NO. OF COND.	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOMINAL O.D.	
				INCHES	mm	INCHES	mm
C7102A	2	18	7/.0152	0.020	0.51	0.172	4.37

Color Code Chart

ORDERING SUFFIX	STOCK COLOR
99	Black-White

Technical Data:

 **Temperature:**
• -30°C to +80°C

 **Color Code:**
See color code chart

 **Approvals:**
• UL Wires Misc.
• RoHS Compliant Directive 2002/95/EC



Multi-Conductor, Unshielded

Construction: 20 or 18 AWG fully annealed stranded, tinned copper per ASTM B-33.

Insulation: Premium-grade, color-coded PVC per UL1007. **Jacket:** PVC, Gray.

Applications:

Public address systems. Intercoms. Internal telephones. Remote control circuits.
Suitable for EIA RS-232 applications.



CATALOG NUMBER	NO. OF COND.	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOM. JACKET THICKNESS		NOMINAL O.D.		COLOR CODE	NOM. C-C CAP.* pF/ft
				INCHES	mm	INCHES	mm	INCHES	mm		
C6351A†	2	20	7/28	0.016	0.41	0.025	0.64	0.192	4.88	Black/Red	28.0
C6352A	3	20	7/28	0.016	0.41	0.032	0.81	0.216	5.50	1	28.0
C6353A	4	20	7/28	0.016	0.41	0.032	0.81	0.235	5.97	1	28.0
C6355A	5	20	7/28	0.016	0.41	0.032	0.81	0.254	6.46	1	28.0
C6356A	7	20	7/28	0.016	0.41	0.032	0.81	0.275	6.99	1	28.0
C6357A	9	20	7/28	0.016	0.41	0.032	0.81	0.317	8.05	1	28.0
C6360A	12	20	7/28	0.016	0.41	0.032	0.81	0.354	9.00	2	28.0
C6358A	15	20	7/28	0.016	0.41	0.032	0.81	0.392	9.96	2	28.0
C2830A†	2	18	16/30	0.016	0.41	0.015	0.64	0.190	5.33	Black/Red	30.5
C2831A	3	18	16/30	0.016	0.41	0.032	0.81	0.236	5.99	1	30.5
C2404A	4	18	16/30	0.016	0.41	0.032	0.81	0.258	6.55	1	30.5
C2420A	5	18	16/30	0.016	0.41	0.032	0.81	0.280	7.11	1	30.5
C2421A	7	18	16/30	0.016	0.41	0.032	0.81	0.309	7.85	1	30.5
C2422A	9	18	16/30	0.016	0.41	0.032	0.81	0.358	9.09	1	30.5
C2412A	12	18	16/30	0.016	0.41	0.032	0.81	0.401	10.19	2	30.5
C2423A	15	18	16/30	0.016	0.41	0.032	0.81	0.445	11.30	2	30.5
C2424A	19	18	16/30	0.016	0.41	0.032	0.81	0.469	11.91	2	30.5
C2433A	25	18	16/30	0.016	0.41	0.032	0.81	0.550	13.94	2	30.5

*Capacitance between conductors

†CM (UL) c(UL), CSA CMG Only

Technical Data:

Temperature:
• -20°C to +80°C

Rated Voltage:
• 300 volts

Color Code:
See color code chart

Approvals:

- NEC Article 800 Type CM (UL:75°C).
- UL Style 2464 (UL:80°C, 300V).
- UL Style 2576 (UL:80°C, 150V).
- CSA CMG (CSA:60°C).
- RoHS Compliant Directive 2002/95/EC.
- Designed to meet UL70,000 BTU Vertical Tray Flame Test.
- Passes CSA CMG Flame Test.

Color Code Chart 1 - For cables up to and including 9 conductors

NO. OF COND.	COLOR	NO. OF COND.	COLOR
1	Black	6	Blue
2	White	7	Orange
3	Red	8	Yellow
4	Green	9	Violet
5	Brown		

Color Code Chart 2 Per ICEA - For cables of 12 thru 25 conductors

NO. OF COND.	COLOR	NO. OF COND.	COLOR	NO. OF COND.	COLOR
1	Black	10	Orange/Black	19	Blue/Red
2	White	11	Blue/Black	20	Red/Green
3	Red	12	Black/White	21	Orange/Green
4	Green	13	Red/White	22	Black/White/Red
5	Orange	14	Green/White	23	White/Black/Red
6	Blue	15	Blue/White	24	Red/Black/White
7	White/Black	16	Black/Red	25	Green/Black/White
8	Red/Black	17	White/Red		
9	Green/Black	18	Orange/Red		



Multi-Conductor

Multi-Conductor, Foil Shield

Construction: 24 thru 12 AWG fully annealed solid or stranded tinned copper per ASTM B-33.

Insulation: Premium-grade, color-coded polyethylene. Premium-grade, color-coded polypropylene. **Jacket:** PVC, Gray.

Features:

Excellent electrical properties. Superior shielding effectiveness. 25% shield overlap provides excellent shielding efficiency. Good flexibility.

Applications:

Recording studios and sound stages. Broadcast and sound systems. Computers. Industrial equipment control.

NEC Type CL2 and CM (UL) c(UL) CMH



CATALOG NUMBER	NO. OF COND.	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOM. JACKET THICKNESS		NOMINAL O.D.		NOM. CAP.*** pF/ft	
				INCHES	mm	INCHES	mm	INCHES	mm	A	B

UL STYLE 2092, CM (UL) C(UL) CMH, 300V

C2513A	2	24	7/32	0.016	0.41	0.026	0.66	0.167	4.24	18.0	33.0
C2514A	2	22	7/30	0.016	0.41	0.020	0.51	0.167	4.24	20.0	36.0
C2524A	2	20	7/28	0.016	0.41	0.020	0.51	0.183	4.65	22.5	40.5
C2534A	2	18	16/30	0.016	0.41	0.020	0.51	0.201	5.21	25.5	45.5

Polyethylene Insulation, Color Code Chart #1

UL STYLE 2093, CM (UL) c(UL) CMH, 300V

C2526A	3	22	7/30	0.016	0.41	0.030	0.76	0.196	4.98	18.5	33.5
C2528A	3	20	7/28	0.016	0.41	0.030	0.76	0.210	5.34	21.0	37.5
C2525A	3	20	7/28	0.016	0.41	0.030	0.76	0.213	5.41	21.0	37.0
C2535A	3	18	16/30	0.016	0.41	0.020	0.51	0.213	5.56	23.0	41.0

Polyethylene Insulation, Color Code Chart #1

UL STYLE 2094, CM (UL) c(UL) CMH, 300V

C2523A	4	22	7/30	0.016	0.41	0.030	0.76	0.213	5.41	18.5	33.5
C2555A	4	20	7/28	0.016	0.41	0.030	0.76	0.234	5.94	20.5	36.5

Polyethylene Insulation, Color Code Chart #1

UL STYLE 2106, CSA, 600V

C2536A*	2	16	19/.0117	0.031	0.79	0.032	0.81	0.307	7.80	20.0	36.0
C2538A**	2	14	19/.0147	0.031	0.79	0.032	0.81	0.335	8.51	23.0	42.0
C2539A**	2	12	19/.0185	0.032	0.81	0.032	0.81	0.376	9.55	26.0	46.0

* CM (UL) c(UL) CMH

** CL2

Polyethylene Insulation, Color Code Chart #1

UL STYLE 2107, CM (UL) c(UL) CMH, 600V

C2537A	3	16	19/.0117	0.031	0.79	0.032	0.81	0.325	8.26	19.0	34.0
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Polyethylene Insulation, Color Code Chart #1

UL STYLE 2464, CL2/CM (UL) c(UL) CMH, 300V

C2540A	2	20	7/28	0.013	0.33	0.032	0.81	0.194	4.9	49.7	89.5
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PVC Insulation, Color Code Chart #2

CM (UL) c(UL) CMH, 300V

C2515A	2	22	Solid	0.007	0.18	0.020	0.51	0.124	3.15	30.0	55.0
C2516A	2	22	7/30	0.008	0.20	0.020	0.51	0.137	3.48	28.0	51.0
C2517A	3	22	7/30	0.008	0.20	0.020	0.51	0.144	3.36	25.0	45.0

Polypropylene Insulation, Color Code Chart #2

***A – Capacitance between conductors

***B – Capacitance between one conductor and other conductors connected to shield

Color Code Chart 1

NO. OF COND.	COLOR
1	Black
2	Natural
3	Red
4	Green

Color Code Chart 2

NO. OF COND.	COLOR
1	Black
2	Red
3	Clear

Technical Data:

Temperature:
• -20° to +75°C

Rated Voltage:
• 300V or 600V

Color Code:
Consult Lapp Tannehill for color coding

Approvals:

- UL Style 2092 (UL: 60°C, 300V)
- UL Style 2093 (UL: 60°C, 300V)
- UL Style 2094 (UL: 60°C, 300V)
- UL Style 2106 (UL: 60°C, 600V)
- UL Style 2107 (UL: 60°C, 600V)
- UL Style 2464 (UL: 80°C, 300V)
- NEC Article 725 Type CL2 (UL: 75°C)
- NEC Article 800 Type CM (UL: 75°C)
- RoHS Compliant Directive 2002/95/EC
- Designed to meet UL 70,000 BTU
- Vertical Tray Flame Test
- CSA CMH (CSA: 60°C)
- Passes CSA CMH Flame Test

General Cable

RoHS Compliant
Directive 2002/95/EC

Designed to Meet
UL Vertical Tray
Flame Test
Underwriters Laboratories Inc.

UL

CSA
CMG Certified
Canadian Standard Association

UL LISTED

CAROL BRAND

Multi-Paired, Unshielded

Construction: 18 AWG fully annealed stranded tinned copper per ASTM B-33. Twisted pairs.

Insulation: Premium-grade, color-coded S-R PVC. **Jacket:** PVC, Gray.

Applications:

Computers. Industrial equipment. Data transmission. Control circuits.
Suitable for EIA RS-232 applications.



CATALOG NUMBER	NO. OF PAIRS	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOM. JACKET THICKNESS		NOMINAL O.D.		NOM. C-C CAP.* pF/ft
				INCHES	mm	INCHES	mm	INCHES	mm	
C6101A	1	18	16/30	0.013	0.33	0.032	0.81	0.206	5.23	26.3
C6118A	2	18	16/30	0.013	0.33	0.032	0.81	0.320	8.13	26.3
C6103A	3	18	16/30	0.013	0.33	0.032	0.81	0.338	8.59	26.3
C6119A	4	18	16/30	0.013	0.33	0.032	0.81	0.372	9.45	26.3
C6120A	5	18	16/30	0.013	0.33	0.032	0.81	0.408	10.36	26.3
C6106A	6	18	16/30	0.013	0.33	0.032	0.81	0.445	11.30	26.3
C6121A	8	18	16/30	0.013	0.33	0.032	0.81	0.484	12.29	26.3
C6109A	9	18	16/30	0.013	0.33	0.032	0.81	0.522	13.26	26.3
C6111A	15	18	16/30	0.013	0.33	0.032	0.81	0.659	16.74	26.3

* Capacitance between conductors

Technical Data:

Temperature:
• -20°C to +80°C

Rated Voltage:
• 300V

Color Code:
See color code chart

Approvals:

- NEC Article 800 Type CM (UL: 75°C).
- UL Style 2464 (UL: 80°C, 300V).
- CSA CMG (CSA: 60°C).
- RoHS Compliant Directive 2002/95/EC.
- Designed to meet UL 70,000 BTU Vertical Tray Flame Test.

Color Code Chart

NO. OF PAIRS	COLOR	NO. OF PAIRS	COLOR
1	Black paired with Red	9	Red paired with Green
2	Black paired with White	10	Red paired with Blue
3	Black paired with Green	11	Red paired with Yellow
4	Black paired with Blue	12	Red paired with Brown
5	Black paired with Yellow	13	Red paired with Orange
6	Black paired with Brown	14	Green paired with White
7	Black paired with Orange	15	Green paired with Blue
8	Red paired with White		



Multi-Conductor

Multi-Paired, Foil Shield

Construction: 24 AWG fully annealed stranded tinned copper per ASTM B-33. Twisted pairs.

Insulation: Premium-grade, color-coded S-R PVC per UL 1061. **Jacket:** PVC, Gray.

Features:

Superior shielding where noise rejection is critical.

Assists system designers in meeting FCC Docket 20780 demands.

Applications:

Computers. Industrial equipment. Data transmission. Control circuits. Suitable for EIA RS-232 applications.



CATALOG NUMBER	NO. OF PAIRS	AWG SIZE	COND. STRAND	NOMINAL INSULATION THICKNESS		NOMINAL JACKET THICKNESS		NOMINAL O.D.		NOMINAL DCR Ω /kft		NOMINAL CAP.* pF/ft	
				INCHES	mm	INCHES	mm	INCHES	mm	COND.	SHLD.	A	B
C0600A	1	24	7/32	0.010	0.25	0.032	0.81	0.157	3.99	25.7	7.2	19.7	21.5
C0601A	2	24	7/32	0.010	0.25	0.032	0.81	0.214	5.44	25.7	7.2	28.7	21.5
C0602A	3	24	7/32	0.010	0.25	0.032	0.81	0.225	5.72	25.7	7.2	25.7	21.5
C0603A	4	24	7/32	0.010	0.25	0.032	0.81	0.245	6.23	25.7	7.2	25.7	20.2
C0604A	5	24	7/32	0.010	0.25	0.032	0.81	0.265	6.73	25.7	7.2	25.7	20.2
C0605A	6	24	7/32	0.010	0.25	0.032	0.81	0.287	7.29	25.7	7.2	23.7	42.7
C0606A	7	24	7/32	0.010	0.25	0.032	0.81	0.287	7.29	25.7	7.2	23.7	42.7
C0607A	8	24	7/32	0.010	0.25	0.032	0.81	0.309	7.85	25.7	7.2	23.7	42.7
C0608A	9	24	7/32	0.010	0.25	0.032	0.81	0.331	8.41	25.7	7.2	23.7	42.7
C0609A	10	24	7/32	0.010	0.25	0.032	0.81	0.359	9.12	25.7	7.2	23.7	42.7
C0610A	15	24	7/32	0.010	0.25	0.032	0.81	0.410	10.41	25.7	7.2	23.7	42.7
C0611A	19	24	7/32	0.010	0.25	0.032	0.81	0.432	10.97	25.7	7.2	23.7	42.7
C0612A	25	24	7/32	0.010	0.25	0.032	0.81	0.505	12.84	25.7	7.2	23.7	42.7
C0720A	1	22	7/30	0.010	0.25	0.032	0.81	0.169	4.29	16.6	6.2	40.4	72.6
C0721A	2	22	7/30	0.010	0.25	0.032	0.81	0.234	5.94	16.6	6.2	32.3	58.1
C0722A	3	22	7/30	0.010	0.25	0.032	0.81	0.246	6.25	16.6	6.2	27.8	50.1
C0723A	4	22	7/30	0.010	0.25	0.032	0.81	0.269	6.83	16.6	6.2	27.8	50.1
C0724A	5	22	7/30	0.010	0.25	0.032	0.81	0.292	7.42	16.6	6.2	27.8	50.1
C0725A	6	22	7/30	0.010	0.25	0.032	0.81	0.317	8.05	16.6	6.2	25.5	45.9
C0726A	9	22	7/30	0.010	0.25	0.032	0.81	0.367	9.32	16.6	6.2	25.5	45.9
C0728A	15	22	7/30	0.010	0.25	0.032	0.81	0.457	11.62	16.6	6.2	25.5	45.9
C0729A	19	22	7/30	0.010	0.25	0.032	0.81	0.482	12.24	16.6	6.2	25.5	45.9
C0730A	27	22	7/30	0.010	0.25	0.032	0.81	0.576	14.36	16.6	6.2	26.0	46.0

*A – Capacitance between conductors

*B – Capacitance between one conductor and other conductors connected to shield

Technical Data:

Temperature:
• -20°C to +80°C

Rated Voltage:
• 300V

Color Code:
See color code chart

Approvals:
 • NEC Article 800 Type CMR (UL:75°C).
 • UL Style 2464 (UL:80°C, 300V).
 • CSA CMG (CSA, 60°C).
 • RoHS Compliant Directive 2002/95/EC.
 • Designed to meet UL 70,000 BTU Vertical Tray Flame Test.
 • Passes CSA CMG Flame Test.

Color Code Chart

NO. OF PAIRS	COLOR	NO. OF PAIRS	COLOR
1	Black with Red	14	Green with White
2	Black with White	15	Green with Blue
3	Black with Green	16	Green with Yellow
4	Black with Blue	17	Green with Brown
5	Black with Yellow	18	Green with Orange
6	Black with Brown	19	White with Blue
7	Black with Orange	20	White with Yellow
8	Red with White	21	White with Brown
9	Red with Green	22	White with Orange
10	Red with Blue	23	Blue with Yellow
11	Red with Yellow	24	Blue with Brown
12	Red with Brown	25	Blue with Orange
13	Red with Orange	26	Brown with Yellow
		27	Brown with Orange



Multi-Paired, Foil Shield, Lo-Cap®

Construction: 24 AWG fully annealed stranded tinned copper per ASTM B-33. Twisted pairs.

Insulation: Premium-grade, color-coded polyethylene. **Jacket:** PVC, Gray.

Applications:

Computers. Industrial equipment. Data transmission. Control circuits.
Suitable for low capacitance applications.



CATALOG NUMBER	NO. OF PAIRS	AWG SIZE	COND. STRAND	NOM. INSULATION THICKNESS		NOM. JACKET THICKNESS		NOMINAL O.D.		NOMINAL DCR Ω /kft		VEL. OF PROP., %	NOM. IMP., Ω	NOMINAL CAP.* pF/ft	
				INCHES	mm	INCHES	mm	INCHES	mm	COND.	SHLD.			A	B
C0890A	2	24	7/32	0.015	0.38	0.032	0.81	0.247	6.27	25.7	7.20	66	100	14.4	26.0
C0901A	3	24	7/32	0.015	0.38	0.032	0.81	0.261	6.63	25.7	7.20	66	100	13.9	25.1
C0893A	4	24	7/32	0.015	0.38	0.032	0.81	0.277	7.04	25.7	7.20	66	100	13.9	25.1
C0894A	5	24	7/32	0.015	0.38	0.032	0.81	0.310	7.87	25.7	7.20	66	100	13.9	25.1
C0899A	6	24	7/32	0.015	0.38	0.032	0.81	0.336	8.53	25.7	7.20	66	100	13.0	23.4
C0896A	9	24	7/32	0.015	0.38	0.032	0.81	0.391	9.93	25.7	7.20	66	100	13.0	23.4
C0897A	12.5	24	7/32	0.015	0.38	0.032	0.97	0.459	11.66	25.7	7.20	66	100	13.0	23.4

*A – Capacitance between conductors

*B – Capacitance between one conductor and other conductors connected to shield

Technical Data:

Temperature:
• -20°C to +75°C

Rated Voltage:
• 30V

Color Code:
See color code chart

Approvals:

- NEC Article 800 Type CM (UL:75°C).
- UL Style 2448 (UL:60°C, 30V).
- CSA CMH (CSA:60°C).
- RoHS Compliant Directive 2002/95/EC.
- Designed to meet UL 70,000 BTU Vertical Tray Flame Test.
- Passes CSA CMG Flame Test.

Color Code Chart

NO. OF PAIRS	COLOR	NO. OF PAIRS	COLOR
1	Black paired with White	7	White/Blue paired with Blue/White
2	Red paired with Green	8	White/Brown paired with Brown/White
3	Brown paired with Blue	9	White/Orange paired with Orange/White
4	Orange paired with Yellow	10	White/Green paired with Green/White
5	Violet paired with Gray	11	White/Red paired with Red/White
6	Tan paired with Pink	12	White/Black paired with Black/White
Single Conductor: Green With Yellow Stripe			



Multi-Conductor

Multi-Paired, Foil/Braid Shield

Construction: 22 and 24 AWG fully annealed stranded tinned copper per ASTM B-33. Twisted pairs.

Insulation: Premium-grade, color-coded S-R PVC per UL 1061. **Jacket:** PVC, Gray.

Features:

Braid Shield provides good flexibility. Superior shielding where noise rejection is critical. Assists system designers in meeting FCC Docket 20789 demands.

Applications:

Computers. Industrial equipment. Data transmission. Control circuits. Suitable for EIA RS-232 applications.



CATALOG NUMBER	NO. OF PAIRS	AWG SIZE	COND. STRAND	NOMINAL INSULATION THICKNESS		NOMINAL JACKET THICKNESS		NOMINAL O.D.		NOMINAL DCR Ω /kft		NOMINAL CAP* pF/ft	
				INCHES	mm	INCHES	mm	INCHES	mm	COND.	SHLD.	A	B
C0620A	2	24	7/32	0.010	0.25	0.032	0.81	0.235	5.97	25.7	5.4	29.5	53.0
C0621A	3	24	7/32	0.010	0.25	0.032	0.81	0.231	5.87	25.7	5.0	26.4	47.6
C0622A	4	24	7/32	0.010	0.25	0.032	0.81	0.253	6.43	25.7	4.5	26.4	47.6
C0623A	5	24	7/32	0.010	0.25	0.032	0.81	0.278	7.06	25.7	4.6	26.4	47.6
C0624A	6	24	7/32	0.010	0.25	0.032	0.81	0.296	7.52	25.7	2.9	24.4	43.9
C0625A	7	24	7/32	0.010	0.25	0.032	0.81	0.313	7.95	25.7	3.1	24.4	43.9
C0626A	8	24	7/32	0.010	0.25	0.032	0.81	0.336	8.53	25.7	4.1	24.4	43.9
C0628A	10	24	7/32	0.010	0.25	0.032	0.81	0.357	9.07	25.7	2.6	24.4	43.9
C0630A	12.5	24	7/32	0.010	0.25	0.032	0.81	0.386	9.80	25.7	3.6	24.4	43.9
C0650A	2	22	7/30	0.010	0.25	0.032	0.81	0.229	5.82	16.6	3.8	33.2	59.7
C0651A	3	22	7/30	0.010	0.25	0.032	0.81	0.296	7.52	16.6	4.1	28.6	51.5
C0652A	4	22	7/30	0.010	0.25	0.032	0.81	0.320	8.13	16.6	3.5	28.6	51.5
C0653A	5	22	7/30	0.010	0.25	0.032	0.81	0.331	8.41	16.6	3.9	28.6	51.5
C0654A	6	22	7/30	0.010	0.25	0.032	0.81	0.348	8.84	16.6	4.4	26.2	47.2
C0655A	7	22	7/30	0.010	0.25	0.032	0.81	0.348	8.84	16.6	5.0	26.2	47.2
C0656A	8	22	7/30	0.010	0.25	0.032	0.81	0.368	9.35	16.6	3.8	26.2	47.2
C0658A	10	22	7/30	0.010	0.25	0.032	0.81	0.388	9.86	16.6	4.1	26.2	47.2
C0660A	12.5	22	7/30	0.010	0.25	0.032	0.81	0.429	10.90	16.6	4.7	26.2	47.2
C0663A	25	22	7/30	0.010	0.25	0.058	0.81	0.620	15.75	16.6	2.1	26.2	46.0

*A – Capacitance between conductors

*B – Capacitance between one conductor and other conductors connected to shield

Color Code Chart

NO. OF PAIRS	COLOR	NO. OF PAIRS	COLOR
1	Black paired with Red	13	Red paired with Orange
2	Black paired with White	14	White paired with Green
3	Black paired with Green	15	Blue paired with Green
4	Black paired with Blue	16	Yellow paired with Green
5	Black paired with Yellow	17	Brown paired with Green
6	Black paired with Brown	18	Orange paired with Green
7	Black paired with Orange	19	White paired with Blue
8	Red paired with White	20	White paired with Yellow
9	Red paired with Green	21	White paired with Brown
10	Red paired with Blue	22	White paired with Orange
11	Red paired with Yellow	23	Yellow paired with Blue
12	Red paired with Brown	24	Blue paired with Brown
		25	Orange paired with Blue
Single Conductor: Green with Yellow Stripe			

Technical Data:

Temperature:
• -20°C to +80°C

Rated Voltage:
• 300V

Color Code:
See color code chart

Approvals:
 • NEC Article 800 Type CMR (UL:75°C).
 • UL Style 2464 (UL: 80°C, 300V).
 • CSA CMG (CSA:60°C).
 • RoHS Compliant Directive 2002/95/EC.
 • Designed to meet UL 70,000 BTU Vertical Tray Flame Test.
 • Passes CSA CMG Flame Test.

