

# Overall Shielded Continuous Flex Multi-Conductor Cable



• 90°C UL  
• 80°C CSA

• MSHA Approved  
• RoHS Compliant

• Designed for Continuous Flex Applications  
• 600 Volt

## BUNCH STRANDED SOFT DRAWN COPPER

Longer flex life in flexing and twisting applications.

## FINELY STRANDED TINNED COPPER CONDUCTORS

Improves flexibility and extends flex life.

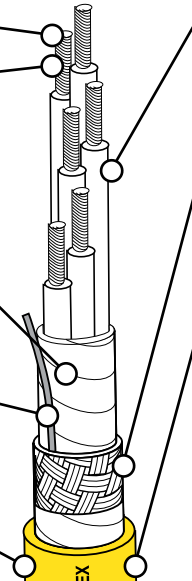
## FLUOROPOLYMER OVER-WRAP

Acts as a flex-facilitator, allowing the conductors to slide smoothly under the braid shield in dynamic applications. Protects the conductors from abrasion, improving flex life.

## FLAT TINNED DRAIN WIRE

## SECURITY YELLOW HEAVY-DUTY POLYURETHANE TPE JACKET

Provides superior first-line defense against industrial and environmental abuse. Resists tearing, abrasion, oil, ozone and most chemicals. UV resistant.



## FLUOROPOLYMER INSULATION

Offers superior resistance to oil, solvents and chemicals. Provides high dielectric capability, mechanical strength and cut resistance.

## ULTRA-SHIELD™ CONSTRUCTION, A HEAVY-DUTY TINNED COPPER BRAID

Shielding provides a minimum of 85% protection from EM and RF interference in addition to superior mechanical strength in industrial applications.

## WOVEN NYLON TAPE

Improves flexibility, allows the conductor bundle to move easily within the jacket for longer flex life.

**38 MILLION**

In cat track testing TPC Continuous Flex products exceeded 38,000,000 cycles without electrical failure

## ORDERING INFORMATION

PART NO.	CABLE AWG/COND	STRANDING NO./AWG	AMPACITY (1)	DRAIN WIRE	NOMINAL O.D. (IN.)	INSULATION THICKNESS (IN.)	WT. (LBS.) PER 1000'
61609	24/9	19/36	4.9	24 AWG	0.300	0.010	51
61606	24/6	19/36	5.6	24 AWG	0.255	0.010	41
61604	24/4	19/36	5.6	24 AWG	0.225	0.010	32
61602	24/2	19/36	7.0	24 AWG	0.210	0.010	28
61526	20/26	26/34	4.9	22 AWG	0.500	0.010	196
61524	20/24	26/34	4.9	22 AWG	0.495	0.010	192
61518	20/18	26/34	5.5	22 AWG	0.430	0.010	148
61512	20/12	26/34	5.5	22 AWG	0.375	0.010	110
61509	20/9	26/34	7.7	22 AWG	0.360	0.010	89
61506	20/6	26/34	8.8	22 AWG	0.290	0.010	68
61502	20/2	26/34	11.0	22 AWG	0.235	0.010	40
61465	18/65	41/34	4.9	20 AWG	0.980	0.010	628
61449	18/49	41/34	4.9	20 AWG	0.875	0.010	496
61433	18/33	41/34	5.6	20 AWG	0.615	0.010	322
61424	18/24	41/34	6.3	20 AWG	0.560	0.010	265
61418	18/18	41/34	7.0	20 AWG	0.485	0.010	210
61412	18/12	41/34	7.0	20 AWG	0.415	0.010	145
61409	18/9	41/34	9.8	20 AWG	0.400	0.010	110
61406	18/6	41/34	11.2	20 AWG	0.320	0.010	88
61404	18/4	41/34	11.2	20 AWG	0.280	0.010	58
61403	18/3	41/34	14.0	20 AWG	0.265	0.010	54
61402	18/2	41/34	14.0	20 AWG	0.250	0.010	50
61731	16/31	65/34	7.2	20 AWG	0.655	0.010	412
61725	16/25	65/34	8.0	20 AWG	0.640	0.010	360
61719	16/19	65/34	9.0	20 AWG	0.575	0.010	286
61712	16/12	65/34	9.0	20 AWG	0.465	0.010	185
61709	16/9	65/34	12.6	20 AWG	0.435	0.010	158
61705	16/5	65/34	14.4	20 AWG	0.385	0.010	110
61703	16/3	65/34	18.0	20 AWG	0.290	0.010	85
61340	14/10	105/34	12.5	20 AWG	0.515	0.010	260

NOTE: (1) Ampacities are based on 30°C ambient and 90°C conductor temperature. These values are to be used as a guideline and may vary according to the actual cable application.

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## APPLICATIONS

- ◆ Cat Tracks
- ◆ Computer Interface
- ◆ Digital Remote Control
- ◆ Heat, Pressure and Flow Meters
- ◆ Instrumentation
- ◆ Load Cell Monitors
- ◆ Programmable Controllers
- ◆ Proximity Switches
- ◆ Programmable Limit Switches
- ◆ Robotic Applications
- ◆ Servo Motors
- ◆ Tachometers
- ◆ Telecommunications
- ◆ Torque-Tool Monitoring Equipment
- ◆ Variable Speed Motors

## SPECIFICATIONS

TREX-ONICS MULTI-CONDUCTOR	
1. Black	34. Black/White/Orange
2. White	35. White/Red/Orange
3. Red	36. Orange/White/Blue
4. Green	37. White/Red/Blue
5. Orange	38. Black/White/Green
6. Blue	39. White/Black/Green
7. White/Black	40. Red/White/Green
8. Red/Black	41. Green/White/Blue
9. Green/Black	42. Orange/Red/Green
10. Orange/Black	43. Blue/Red/Green
11. Blue/Black	44. Black/White/Blue
12. Black/White	45. White/Black/Blue
13. Red/White	46. Red/White/Blue
14. Green/White	47. Green/Orange/Red
15. Blue/White	48. Orange/Red/Blue
16. Black/Red	49. Blue/Red/Orange
17. White/Red	50. Black/Orange/Red
18. Orange/Red	51. White/Black/Orange
19. Blue/Red	52. Red/Orange/Black
20. Red/Green	53. Green/Red/Blue
21. Orange/Green	54. Orange/Black/Blue
22. Black/White/Red	55. Blue/Black/Orange
23. White/Black/Red	56. Black/Orange/Green
24. Red/Black/White	57. White/Orange/Green
25. Green/Black/White	58. Red/Orange/Green
26. Orange/Black/White	59. Green/Black/Blue
27. Blue/Black/White	60. Orange/Green/Blue
28. Black/Red/Green	61. Blue/Green/Orange
29. White/Red/Green	62. Black/Red/Blue
30. Red/Black/Green	63. White/Orange/Blue
31. Green/Black/Orange	64. Red/Black/Blue
32. Orange/Black/Green	65. Green/Orange/Blue
33. Blue/White/Orange	

**ADD AN EMI SHIELDED GRIP-SEAL™ TO COMPLETE YOUR ORDER!**



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## CHEMICAL RESISTANCE OF COMMON INSULATING MATERIALS

CHEMICAL	RUBBER	SILICON	FLUOROPOLYMER
OXIDATION RESISTANCE	F	E	O
OIL RESISTANCE	P	F-G	O
UV RESISTANCE	F	O	O
WATER RESISTANCE	G	G-E	E
ACID RESISTANCE	F-G	F-G	E
ALKALI RESISTANCE	F-G	F-G	E
GASOLINE KEROSENE	P	P-F	E
BENZOL TOLUENE	P	P	E
DEGREASER SOLVENT	P	P-G	E
ALCOHOL RESISTANCE	G	G	E

O = OUTSTANDING    E = EXCELLENT    G = GOOD    F = FAIR    P = POOR

## ELECTRICAL CHARACTERISTICS

PART NO.	NOM. IMPEDANCE (PER 1,000 FT.)	NOM. CAPACITANCE (COND-COND)	NOM. CAPACITANCE (COND-SHLD)
61609	69	24	42.5
61606	69	24	42.5
61604	69	24	42.5
61602	69	24	42.5
61524	53	31.5	56
61518	53	31.5	56
61512	53	31.5	56
61509	53	31.5	56
61506	53	31.5	56
61502	53	31.5	56
61424	47	35	62
61418	47	35	62
61412	47	35	62
61409	47	35	62
61406	47	35	62
61404	47	35	62
61402	47	35	62
61731	37.5	44	79.2
61725	37.5	44	79.2
61719	37.5	44	79.2
61712	37.5	44	79.2
61709	37.5	44	79.2
61705	37.5	44	79.2

*These values are to be used as a guideline and may vary according to the actual cable application.*