

Overall Shielded Continuous Flex Multi-Conductor Cable



- UL Recognized 90°C
- CSA Certified 80°C
- Designed for Continuous Flex Applications
- RoHS Compliant
- 600 Volt
- 90°C

BUNCH STRANDED SOFT DRAWN COPPER

Longer flex life in flexing and twisting applications.

FINELY STRANDED TINNED COPPER CONDUCTORS

Improves flexibility and extends flex life.

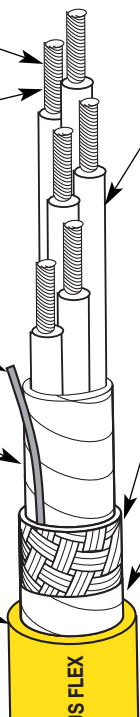
FLAT TINNED DRAIN WIRE

TEFLON® 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.

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.



TEFZEL® 750 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 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.

25 MILLION

In cat track testing TPC Continuous Flex products exceeded 25,000,000 cycles without electrical failure

ORDERING INFORMATION

PART NO.	CABLE AWG/COND	STRANDING NO./AWG	AMPACITY*	DRAIN WIRE	NOMINAL O.D.	INSULATION THICKNESS (IN.)	WT. (LBS.) Per 1000'
61705	16/5	65/34	20.0	20AWG	.385	.010	110
61709	16/9	65/34	17.0	20AWG	.435	.010	158
61712	16/12	65/34	12.0	20AWG	.465	.010	185
61719	16/19	65/34	12.0	20AWG	.575	.010	286
61725	16/25	65/34	11.0	20AWG	.640	.010	360
61731	16/31	65/34	9.6	20AWG	.655	.010	412
61402	18/2	41/34	18.0	20AWG	.250	.010	50
61403	18/3	41/34	18.0	20AWG	.265	.010	54
61404	18/4	41/34	14.4	20AWG	.280	.010	58
61406	18/6	41/34	14.4	20AWG	.320	.010	88
61409	18/9	41/34	13.0	20AWG	.400	.010	110
61412	18/12	41/34	9.0	20AWG	.415	.010	145
61418	18/18	41/34	9.0	20AWG	.485	.010	210
61424	18/24	41/34	8.1	20AWG	.560	.010	265
61433	18/33	41/34	7.2	20AWG	.615	.010	322
61449	18/49	41/34	6.3	20AWG	.875	.010	496
61465	18/65	41/34	6.3	20AWG	.980	.010	628
61502	20/2	26/34	13.5	22AWG	.235	.010	40
61506	20/6	26/34	10.8	22AWG	.290	.010	68
61509	20/9	26/34	9.5	22AWG	.360	.010	89
61512	20/12	26/34	6.8	22AWG	.375	.010	110
61518	20/18	26/34	6.8	22AWG	.430	.010	148
61524	20/24	26/34	6.0	22AWG	.495	.010	192
61526	20/26	26/34	6.0	22AWG	.500	.010	196
61602	24/2	19/36	8.0	24AWG	.210	.010	28
61604	24/4	19/36	6.4	24AWG	.225	.010	32
61606	24/6	19/36	6.4	24AWG	.255	.010	41
61609	24/9	19/36	5.6	24AWG	.300	.010	51

*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.

- ◆ 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

Chemical Resistance Of Common Insulating Materials

	Rubber	Silicone	Tefzel 750
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 F = FAIR E = EXCELLENT
P = POOR G = GOOD

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 | |

Trex-Onics Jacket Chemical Resistance

ACIDS		ORGANICS (continued)	
Acetic, 5%	Good	Ethylene Glycol 50% Water	Good
Formic, 20%	Variable	Gasoline, 100 Octane	Fair
Hydrochloric, 10%	Fair	Hexane	Fair-Good
Olcic	Fair-Good	Kerosene	Good
Sulfuric, 20%	Fair	Methylene Chloride	Variable
ALCOHOLS		Methyl Ethyl Keytone	Variable
Ethanol	Variable	N-Methyl-2-Pyrrolidene	NR
Isopropanol	Fair-Poor	Oil, Texas Crude	Fair-Good
Isopropanol, 50%	Fair-Poor	Oil, Detergent 20W	Good
Methanol	Variable	Oil, Non-Detergent 20W	Good
ALKALI		Oil, Skydrol Type B	NR
Sodium Hydroxide, 20%	Fair	Oil, Skydrol Type 500A	Fair-Variable
		Oil, Skydrol Type 500B	Fair-Variable
ORGANICS		Oil, Transmission Type A	Good
Acetone	Poor	Perchloroethylene	Variable
ASTM Fuel A	Good	Pyridine	NR
ASTM Fuel B	Fair	Tertrahydrofuran	NR
ASTM Fuel C	Fair-Variable	Toluene	Variable
ASTM Fuel #1	Good	Trichloroethylene	Variable
ASTM Fuel #2	Good	Turpentine	Good
ASTM Fuel #3	Good-Fair	MISCELLANEOUS	
Benzene	Variable	Chlorox (5%)	Good
Brake Fluid Type A	Variable	Calcium Chloride	Good
Brake Fluid (H.D.)	Fair-Good	Saturated Solution	
Butane	Good	FREON-113	Variable
Carbon Tetrachloride	Variable	FREON-11B	Variable
Cyclohexanone	NR	FREON-112	Good
Dimethyl Formamid	NR	Hydrogen Disulfide (5%)	Excellent
Dimethyl Sulfoxide	NR	Sodium Chloride	Good
I, 4-Dioxane	NR	Saturated Solution	
Diocetyl Phthalate	Fair	Synthetic Perspiration	Good
Ethyl Ether	Fair-Good	Tide (1%)	Good
Ethylene Glycol	Good	Water	Good

CODING

EXCELLENT
Little or no change in constant exposure — application is recommended.

GOOD
Only slight loss in properties on constant exposure — application is recommended.

FAIR
Some swelling could occur in constant exposure but recommended for infrequent contact.

VARIABLE
In constant exposure not recommended. Infrequent contact recommended.

NR
Not recommended, product could deteriorate in moderate exposure.

ELECTRICAL CHARACTERISTICS

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

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

Trex-Onics®