

# SHIELDED ARMORED ELECTRONIC INSTRUMENT CABLE

MULTIPLE PAIRS (SERVED WIRE ARMOR) INDIVIDUAL/OVERALL SHIELD (SPOS)  
 MULTIPLE TRIADS (SERVED WIRE ARMOR) INDIVIDUAL/OVERALL SHIELD (SPOS)

## Construction

### Construction Specifications: Multiple Shielded Pairs SWA

- Conductor: **20 gauge** 7 strand concentric bare copper, Class B.
  - Primary Insulation: 15 mils nominal, 105°C PVC.
  - No. of conductors per group: 2
  - Color Code: Black and White.
  - Group ID: Each pair numbered.
  - Lay of Twist: 2"
  - Pair Shield: 100% coverage 1.77 mils aluminum-Mylar\* tape and 22 gauge 7 strand tinned copper drain wire.
  - Cable Shield: 100% coverage, 2.35 mils aluminum-Mylar\* tape shield and a 20 gauge 7 strand tinned copper drain wire.
  - Inner & Outer Jacket: Black FR PVC, thickness depending on cable size per following chart:
- | CABLE SIZE               | JACKET  |
|--------------------------|---------|
| 4 and 8 pair . . . . .   | 50 mils |
| 10, 12 and 16 pair . . . | 60 mils |
| 24, 36 and 50 pair . . . | 70 mils |
- Armor: Multiple strands of served soft annealed steel wire.
  - Communications Wire: 22 gauge copper. Color coded orange.

### Multiple Shielded Triads SWA

- Conductor: **20 gauge** 7 strand concentric bare copper, Class B.
  - Primary Insulation: 15 mils nominal, 105°C PVC.
  - No. of conductors per group: 3
  - Color Code: Black, White and Red.
  - Group ID: Each triad numbered.
  - Lay of Twist: 2"
  - Pair Shield: 100% coverage, 1.77 mils aluminum-Mylar\* tape and a 22 gauge 7 strand tinned copper drain wire.
  - Cable Shield: 100% coverage, 2.35 mils aluminum-Mylar\* tape shield and a 20 gauge 7 strand tinned copper drain wire.
  - Inner & Outer Jacket: Black FR PVC, thickness depending on cable size per following chart:
- | CABLE SIZE              | JACKET  |
|-------------------------|---------|
| 4 triples . . . . .     | 50 mils |
| 12 and 16 triples . . . | 60 mils |
| 36 triples . . . . .    | 70 mils |
- Armor: Multiple strands of served soft annealed steel wire.
  - Communications Wire: 22 gauge copper. Color coded orange.

## PRODUCT DIMENSIONS

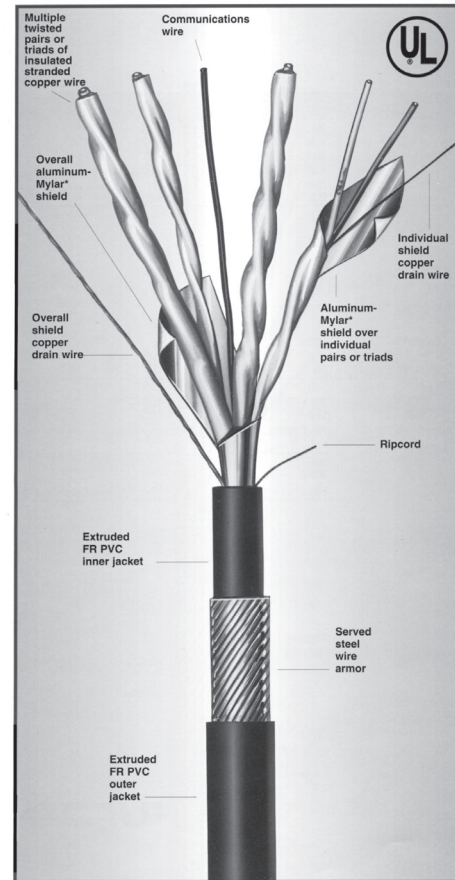
CUSTOM CATALOG NUMBER	SIZE	No. of Pairs	No. of Triads	Overall Diameter Nominal/Maximum	Minimum Bend Radius	Maximum Pulling Tension	Net Weight
	AWG			Inches	Inches	lbs.	lbs./mft.
SWA 4404	20	4		0.627/0.663	8	409	287.2
SWA 4408	20	8		0.740/0.778	9-3/8	645	388.2
SWA 4412	20	12		0.935/0.996	12	792	620.8
SWA 4416	20	16		1.006/1.069	12-7/8	1057	715.0
SWA 4424	20	24		1.245/1.311	15-3/4	1354	1111.9
SWA 4436	20	36		1.373/1.444	17-3/8	1610	1359.7
SWA 4504	20		4	0.682/0.718	8-5/8	474	331.5
SWA 4512	20		12	1.035/1.098	13-1/4	1090	742.6
SWA 4514	20		16	1.159/1.215	14-5/8	1271	997.7

## Application

This product is UL listed as power limited tray cable for cable tray installation in NEC Class I, Division 2 and Class II, Division 2 hazardous areas. It is constructed in compliance with NEC Article 725 and has a 300-volt rating. The served wire armor offers cut-through resistance and is suited for vertical drops.

The specifications listed above are subject to change without notice. In any change, the product's performance will remain the same, or be improved.

- \* DuPont Trademark
- \*\* Also available in 600 Volt configuration.
- \*\*\* Also available in other AWG sizes.



# Custom Cable Corp.