

REVISIONS			
LTR.	DESCRIPTION	DATE	APPROVED
G	DCA 360, REV & REDRAWN WAS A SIZE 8801	83/5/6	JD/LER
H	ECO B0607. ADDED ADDITIONAL INFORMATION PER DESC REQUEST. 4068	84/10/30	SW
J	ECO B0687, CLII (I) ADDED HARDNESS NOTE, SH 1. SSECP 447-II 3739	84-11-20	HM/SW
K	ECO 13197 CHANGED JACKET FROM PTFE TO FEP, UPDATED VENDOR PN. JACKET WAS SINTERED AND WRAPPED BAG-003 DI411-1210-II 3568	9/19/87	W.A.
L	ECOM10336 CLII (I) SH 2 DELETE LOCKS SODIUM AMMONIA FLUOROCARBON 2616	9/26/87	SW

REV STATUS OF SHEETS	REV.	L	L	J	K		
	SHEET	1	2	3	4		

THIS DRAWING CONTAINS HARDNESS CRITICAL ITEMS (HCI) OR HARDNESS CRITICAL PROCESSES (HCP). ALL CHANGES TO ITEMS OR PROCESSES ANNOTATED ON THE DRAWING OR PARTS LIST MUST BE EVALUATED FOR HARDNESS IMPACTS.

### TABULATED DRAWING

IDENTIFICATION OF THE "SUGGESTED SOURCE(S) OF SUPPLY" HEREON IS NOT TO BE CONSTRUED AS A GUARANTEE OF PRESENT OR CONTINUED AVAILABILITY AS A SOURCE OF SUPPLY FOR THE ITEM(S).

### SPECIFICATION CONTROL DRAWING

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE I PLACE .03 II PLACE .010 III PLACE .006 ANGLES ± 1° BREAK SHARP CORNERS 82% OR CHAMFER SCREW THREADS PER MIL S 7743 FINISHED SURFACES ✓ DIMS IN PARENTHESES ARE IN MILLIMETERS TOLERANCE CONVERSION INCH MM ±.005 ±0.13 ±.010 ±0.25 ±.030 ±0.8	CONTRACT NO. N00Q19-82-C-0125		SIMMONDS PRECISION PRODUCTS INC. VERGENNES, VERMONT	
	DRAWN ISSUED	12-15-88	WIRE, SHIELDED, TREATED (FEP... SODIUM AMMONIA ETCHED OUTER INSULATION)	
	CHECKED LER	82-5-9	APPROVED	
	SIZE A		CODE IDENT NO. 89305	WST - S
SCALE		SHEET 1 OF 4		

76964

11M

1-70-010

DESCRIPTION: Shielded, jacketed, single conductor wire.

CONDUCTOR: The conductor shall be made of silver plated copper strands.

PRIMARY INSULATION: Extruded Fluorinated Ethylene Propylene (FEP). Colors shall be specified.

SHIELD: The shield shall be a braid of silver plated copper strands with 90 percent coverage (nominal).

JACKET: The jacket shall be extruded Fluorinated Ethylene Propylene (FEP) colored as specified and treated with a chemical etchant to develop a bondable surface.

PART NUMBER: Simmonds part numbers shall be in the following form:

WST-26-2  
          └── conductor size (AWG)  
          └── color code

Jacket and primary insulation colors shall be coded into the part number using the following single digit codes:

- |          |          |
|----------|----------|
| 0-black  | 5-green  |
| 1-brown  | 6-blue   |
| 2-red    | 7-purple |
| 3-orange | 8-gray   |
| 4-yellow | 9-white  |

Colors shall conform to MIL-STD-104 and fast to direct sunlight, solvents and rated temperature of the jacket material.

OPERATING TEMPERATURE: -90°C TO 200°C

WITHSTANDING VOLTAGE: 2000 VDC

WORKING VOLTAGE: 600 VDC

INSULATION RESISTANCE: 50,000 MEGOHMS/1000 FT.

DC RESISTANCE: SEE TABLE I.

SIZE	CODE IDENT NO.	WST -	REV
A	89305		L
SCALE			SHEET 2 of 4

1-70-010

WEIGHT: SEE TABLE I.

MARKING: WIRE SPOOLS SHALL BE MARKED WITH VENDOR AND SIMMONDS PART NO.

TABLE I  
CONSTRUCTION AND CHARACTERISTICS

SIMMONDS NUMBER (NOTE 1)	WIRE SIZE AWG (STRANDING)	DIA. OF CONDUCTOR NOMINAL	DIA. ACROSS PRIMARY INSUL., MAX.	DIA. ACROSS FINISHED CABLE MAX.	CAPACITANCE pF/FOOT NOMINAL
WST-22-*	22 (19x34)	.032	.049	.116	42
WST-24-*	24 (19x36)	.025	.043	.111	38
WST-26-*	26 (19x38)	.020	.038	.095	32

SIMMONDS NUMBER (NOTE 1)	DC RESISTANCE PER 1,000 FT. (MAX @ 20°C)	NOMINAL WEIGHT PER 1,000 FT.
WST-22-*	15.1Ω	9.7 LB
WST-24-*	24.3Ω	8.5 LB
WST-26-*	38.4Ω	6.7 LB

NOTE:

- THE ASTERISK IN THE PART NUMBER SHALL BE REPLACED BY THE COLOR CODE DESIGNATOR.

SIZE	CODE IDENT NO.	WST -	REV
A	89305		J
SCALE			SHEET 3 of 4

SUGGESTED SOURCES OF SUPPLY

VENDOR	VENDOR'S ITEM NO.	SIMMONDS NO.
HARBOUR INDUSTRIES, INC. SHELBURNE, VT 05482 FSCM NO. 27478	1XE-22-1934-SE -BK-BK -BR-BR -R-R -O-O -Y-Y -G-G -BL-BL -PR-PR -GY-GY 1XE-22-1934-SE -W-W	WST-22-0 -1 -2 -3 -4 -5 -6 -7 -8 WST-22-9
	1XE-24-1936-SE -BK-BK -BR-BR -R-R -O-O -Y-Y -G-G -BL-BL -PR-PR -GY-GY 1XE-24-1936-SE -W-W	WST-24-0 -1 -2 -3 -4 -5 -6 -7 -8 WST-24-9
	1XE-26-1938-SE -BK-BK -BR-BR -R-R -O-O -Y-Y -G-G -BL-BL -PR-PR -GY-GY 1XE-26-1938-SE -W-W	WST-26-0 -1 -2 -3 -4 -5 -6 -7 -8 WST-26-9

SIZE <b>A</b>	CODE IDENT NO. <b>89305</b>	WST-	REV <b>K</b>
SCALE		SHEET	4 of 4