SPECI	FICAT	ION CO	ONTRO	DL DR	AWIN	IG		44AM11	81				
TITLE EIGHT CO	NDUCTOR CA	BLE, SHIELDED	, JACKETED,	GENERAL PUF	RPOSE, 600	) VOLT	11-23-05	Revision A	<b>\</b>				
This specification sheet forms a part of the latest issue of Raychem Specification 44 and NEMA WC 27500 as applicable.													
COMPON	NENT WIRES-	44A0111	SHIELD	D- TIN-COATED	COPPER	,L	ACKET - RADIAT MODIFI	'ION-CROSSLIN ED PVF <sub>2</sub>	IKED,				
FILAMENT BINDER AS REQUIRED TABLE I. CABLE CONSTRUCTION DETAILS													
PAF	PART NUMBER		SHIELD SIZE (AWG)	JACKET THICKNESS (in.)		OUTSIDE DIAMETER (in.)		MAXIMUM WEIGHT (lbs/1000 ft.)					
		(AWG)	. ,	MINIMUM	MAXIMUI		MAXIMUM	,	_				
	M1181-26-*	26	38	.005	.010	.144	.163	20.7	-				
	M1181-24-* M1181-22-*	24	38 38	.006 .006	.012 .012	.163	.186	27.0 37.4	-				
	M1181-20-*	22 20	38	.008	.012	.188	.214	51.7	-				
	M1181-18-*	18	38	.007	.014	.214	.243	73.7	-				
	M1181-16-*	16	38	.007	.014	.271	.311	90.2					
44A	M1181-14-*	14	36	.007	.014	.330	.375	136.					
			TABLE II.	CABLE PERFC					]				
					BEND TE	STING							
			MANDREL (inch)		. DIAMETER (± 3%)		WEIGHT (lb) (± 3%)						
PART NUMBER <u>1</u> /		CROS	IMMERSION AND CROSSLINKED VERIFICATION		COLD BEND		IMMERSION AND CROSSLINKED VERIFICATION						
44	4AM1181-26-*		6.00		6.00		1.00		1				
44AM1181-24-*			6.00		6.00		1.50		6.00 6.00				
44AM1181-22-*			6.00		6.00		1.50		12.0				
44AM1181-20-*			6.00		6.00		1.50		12.0 12.0				
	<u>44AM1181-18-*</u> 44AM1181-16-*		<u> </u>		6.00 10.0		2.00 2.00		-				
44AM1181-16- 44AM1181-14-*			10.0		10.0		4.00		<u>12.0</u> 36.0				
Use Tyco Electronics al <u>1</u> / COLORS AI AN ALTERN	Nominal value	s are for informat s are not required te the suitability of ight to make chang DESIGNATORS SHALL DE MAY REPLACE MIL THE PART NUMBER, MENSIONS ARE IN INC	this product for es in materials of BE IN ACCORDAI STD-681 COLOR AS NECESSARY,	NCE WITH MIL-STD CODE DESIGNATOR TO CAPTURE ANY A	681. HOWEVE RS. (EXAMPLE ADDITIONAL R	ER, DUE TO LENGTH L :: "901/902" MAY BE EQUIREMENTS IMPO	IMITATIONS OF THE REPLACED BY "Axxx	RAYCHEM PART N (".) OTHER CODES A	UMBER, ND & Cable				
Page 1 of 2	THIS SPECIFICATION SHEET TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.												

tyco	- SPECIFICATION CONTROL DRAWING	Page 2 of 2	Revision	SCD Number	
Electronics		Tage 2 OF 2	A		44AM1181
	CABLE RATINGS AND ADDITIO	NAL REQUIR	EMENTS		
	TEMPERATURE RATING: 150°C Maximum continuous conductor temperature VOLTAGE RATING: 600 volts (rms) at sea level BLOCKING: 150 ± 3°C for 6 hours CROSSLINKED VERIFICATION: 200 ± 5°C for 6 DIELECTRIC WITHSTAND: 1500 volts (rms), 60 FLAMMABILITY: 30 seconds (maximum); 3 in. (r IMMERSION: Diameter increase 5% (maximum); JACKET COLOR: White preferred JACKET COLOR: White preferred JACKET CONCENTRICITY: 70% (minimum) JACKET ELONGATION AND TENSILE STREN Elongation, 200% (minimum) Tensile Strength, 4000 lbf/in² (minimum) JACKET FLAWS: Spark Test, 1.5 kV (rms) Impulse Dielectric Test, 6.0 kV (peak) LOW TEMPERATURE-COLD BEND: -55 ± 5°C 1 SHIELD COVERAGE: 85% (minimum) VOLTAGE WITHSTAND TEST (POST ENVIRC	) Hz, 15 second naximum); no ; no cracking, r GTH: for 4 hours	flaming of no dielectri	facial tissue ic breakdowr	1
	PART NUMBER: The "*" in the part numbers on page 1 shall be re with a slash separating the component wire colo wire colors from the jacket color. Colors shown d <u>1</u> / Example: AWG 24, black, brown, red, orange white jacket: 44AM1181-24-0/1/2/3/	rs and a dash lo not necessa e, yellow, greer	separating rily reflect	g the compor	e of manufacturing.
	1/See footer section on page 1.				