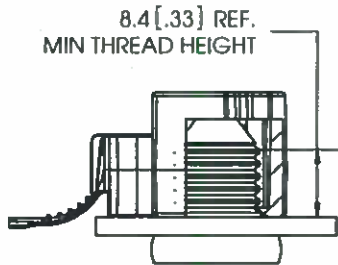


# AVERY DENNISON MARKETING SPECIFICATION

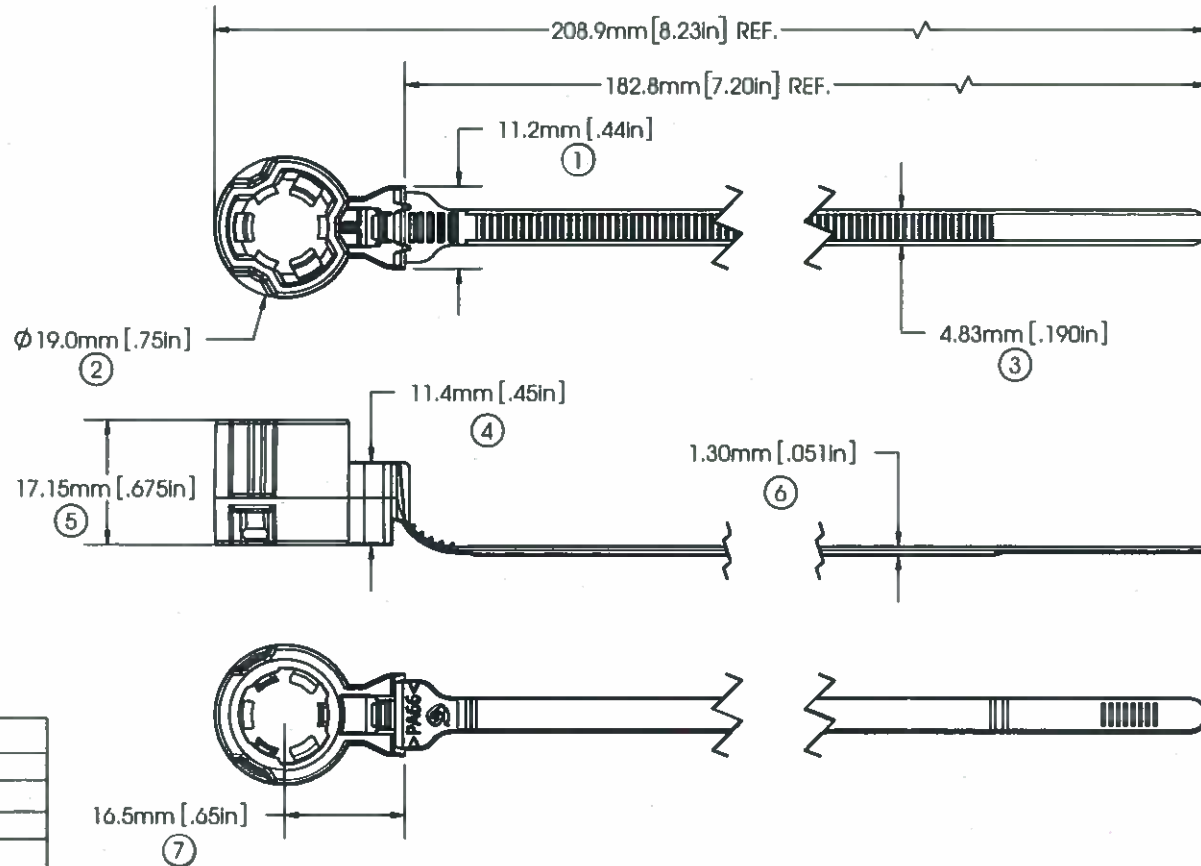
## HISTORY

REV.	DATE	DESCRIPTION
A	3/1/07	RELEASE TO PRODUCTION
B	3/04/08	INCREASE CAPACITY
C	11/18/16	UPDATED FORMAT; ADDED FLAMMABILITY SPEC AND SPECIAL CHAR., INSERTION AND EXTRACTION SPEC

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**ASSEMBLED VIEW**



NOTES:  
1. SPECIAL CHARACTERISTICS ARE NOTED BY A TRIANGLE ( Δ )

8	Δ FLAMMABILITY RATING:	HB RATED PER FMVSS302
9	Δ TENSILE STRENGTH:	50 LBF / 22.7 KGf MIN.
	INSERTION FORCE:	10 LBF / 44.5N MAX.
	EXTRACTION FORCE:	35 LBF / 155.7N MIN.
	MOUNTING:	M12 THREADED STUD, SEE ASSEMBLED VIEW FOR ADDITIONAL REQUIREMENTS
	OPERATING TEMP RANGE:	-40°F (-40°C) TO 239°F (115°C) CONTINUOUS AND 257°F (125°C) AT MAXIMUM EXPOSURE
	WEIGHT:	3.5g
	BUNDLE DIAMETER:	Ø 1.6mm TO Ø 44.5mm
	TOOL:	TOOL HAND ADJUSTABLE, FOR PLASTIC TIE DOWN STRAP, AVERY DENNISON PART NO. 12001-0
	TOOL TENSION SETTING:	6 - 8
	PACKAGING:	500/BAG, 10 BAGS/MASTER

APPROVALS: ENG. APPR. *Darin Padden 11/18/16*  
Q.A. APPR. *Cynthia Challenor 11/18/16*

SPECIFIC TOLERANCES ARE:  
.XX ± .03 INCHES .X ± .7 mm  
.XXX ± .010 INCHES .XX ± .25 mm  
ANGULAR: ± 2°

MATERIAL NYLON 6/6, IMPACT MODIFIED, HEAT STABILIZED  
COLOR BLACK

**AVERY DENNISON**  
FASTENER DIVISION  
FITCHBURG, MA 01420 U.S.A.  
TEL. 1-800-225-6913  
FAX. 978-353-8157

DESCRIPTION M12 WELD STUD TIE  
STOCK NO. 20116-0  
REV. C