

DYDEN CORPORATION

ELECTRIC WIRES
& CABLES PRODUCTS

DATE Nov, 14, 2014

SPEC. No.FSC14-872

SPECIFICATION

FOR

ETHYLENE TETRAFLUOROETHYLENE (ETFE) INSULATED
AND PVC JACKETED CABLE WITH SHIELD

(RMFES-SB-Kr (2517))

RoHS correspondence



signed by *K. Nishimura*
K. NISHIMURA

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Factory Automation & Robot Cable Division

1. SCOPE

This specification covers the construction, characteristics of the Ethylene Tetrafluoroethylene (ETFE) insulated and PVC jacketed cable with shield .

2. SYMBOL, SIZE

The symbol and size of the cable shall be
" RMFES-SB-Kr(2517) AWG17/48C "

3. UL STANDARD

RECONGNIZED by UNDERWRITERS LABORATORIES Inc.

STYLE No.	2517 (UL 758 : AWM)
Rating TEMP.	105°C
VOLT.	300 V
USE	External interconnection of electronic equipment or internal wiring of electronic equipment or appliances.

4. FLAME TESTING

The cable shall pass the vertical wire flame test (VW-1) described in UL1581, Paragraph 1080.

5. CONSTRUCTION


The construction of the cable shall conform to Table 1.

6. CHARACTERISTICS

The characteristics of the cable shall be shown in Table 2.

7. MARKING

The following information shall be indicated with a suitable method to the cable.

" —DYDEN E91337  AWM 2517 105C 300V VW-1 -LF- — "

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Table 1 Construction

I T E M		V A L U E	
Symbol		RMFES-SB-Kr (2517)	
Size	AWG	17	
Conductor	Material	Tinned Annealed Copper	
	Construction (No./mm)	7/33/0.08	
	Dia. (approx. mm)	1.50	
Insulation	Material	ETFE	
	Thickness (approx. mm)	0.30	
	Dia. (approx. mm)	2.10	
Unit Stranding	Center layer	5 C	4 C
Unit Overall diameter (approx. mm)		(A) 5.7	(B) 5.1
Stranding	Center layer	(A) × 8 + (B) × 2	
Tape	—	Binder tape	
Shield (Braid)	Material	Tinned Annealed Copper	
	Thickness (approx. mm)	0.5	
Jacket	Material (color)	Flame retardant • Smooth PVC (Black)	
	Thickness (approx. mm)	1.8	
Overall diameter (approx. mm)		28.5	
Approx. mass (kg/km)		1110	

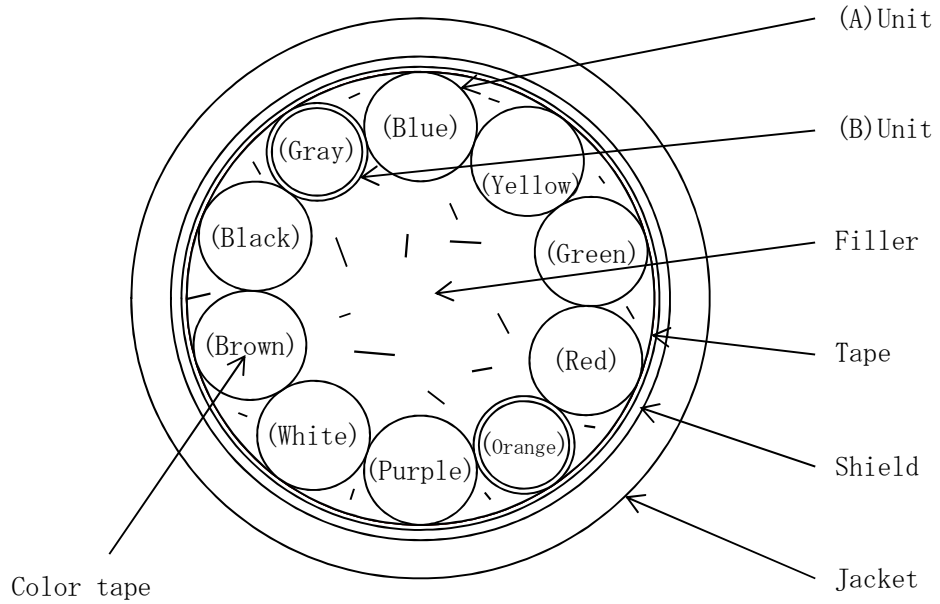
Table 2 Characteristics (at 20°C)

I T E M	S T A N D A R D V A L U E
Max. DC resistance of conductor (Ω /km)	18.6
Min. insulation resistance ($M\Omega$ -km)	100
Dielectric strength (V/min)	AC 2000
※Permissible current (A) (at 40°C)	5.5

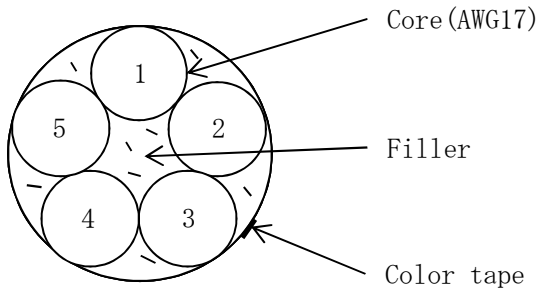
※The permissible current is a reference value. (at the reduction rate of 0.5)

F i g 1

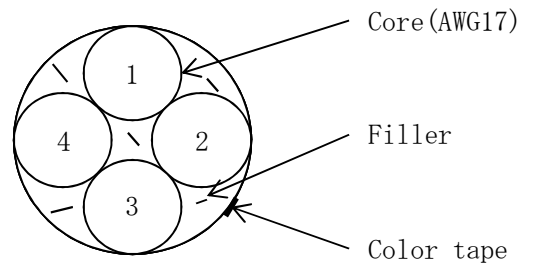
Cross-Section of Cable



(A) Unit



(B) Unit



CoreNo.	Colors
1	Black
2	White
3	Red
4	Green
5	Yellow

NOT TO SCALE