

# DYDEN CORPORATION

ELECTRIC WIRES  
& CABLES PRODUCTS

DATE Feb, 6, 2012

SPEC. No.FSC12-060

## SPECIFICATION

FOR

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

(RMFES - SB - Kr (2517))

RoHS correspondence

signed by K. Nishimura  
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Manager  
Engineering section  
Engineering dept  
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) AWG25/18P "  
(0.2mm<sup>2</sup>/18P)

3. UL STANSARD

RECONGNIZED by UNDERWIRITERS LABORATORIES Inc.

STYLE No.	2517 (UL 758 : AWM)
Rating TEMP.	105°C
VOLT.	300V
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- RMFES-SB — "

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Table 1 Construction

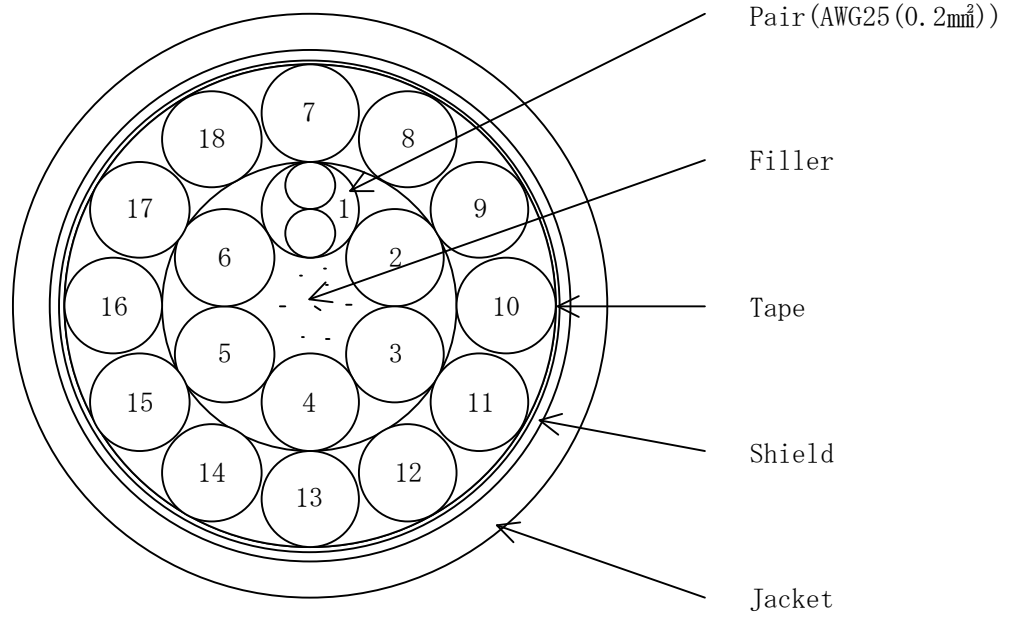
I T E M		V A L U E
Symbol		RMFES-SB-Kr(2517)
Size	AWG(mm <sup>2</sup> )	25 (0.2)
Conductor	Material	Tinned Annealed Copper
	Construction(No./mm)	40/0.08
	Dia. (approx. mm)	0.58
Insulation	Material	ETFE
	Thickness (approx. mm)	0.20
	Dia. (approx. mm)	0.98
Twisting	Dia. (approx. mm)	2.0
Stranding	Center layer	6 P
	First layer	12 P
Tape	—	Binder tape
Shield (Braid)	Material	Tinned Annealed Copper
	Thickness (approx. mm)	0.35
Jacket	Material (color)	Flame retardant • Smooth PVC (Black)
	Thickness (approx. mm)	1.2
Overall diameter (approx. mm)		12.3
Approx. mass (kg/km)		200

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 ( $\Omega$ /km)	107.3
Min. insulation resistance ( $M\Omega$ -km)	100
Dielectric strength (V/min)	AC 2000

# F i g 1

## C r o s s - S e c t i o n o f C a b l e



PairNo.	Colors	PairNo.	Colors
1	Blue×White	10	Purple×Brown
2	Yellow×White	11	Blue×Black
3	Green×White	12	Yellow×Black
4	Red×White	13	Green×Black
5	Purple×White	14	Red×Black
6	Blue×Brown	15	Purple×Black
7	Yellow×Brown	16	Blue×Gray
8	Green×Brown	17	Yellow×Gray
9	Red×Brown	18	Green×Gray

NOT TO SCALE