

# DYDEN CORPORATION

ELECTRIC WIRES  
& CABLES PRODUCTS

DATE Jul, 20, 2016

SPEC. No.FSC12-057A

## SPECIFICATION

FOR

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

(RMFES - SB - Kr (2517))

RoHS correspondence



signed by S. Maeda  
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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) AWG25/15P ”  
(0.2mm<sup>2</sup>/15P)

3. UL STANDARD

RECONGNIZED by UNDERWRITERS 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-Kr AWG25/15P — ”

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Table 1 Construction

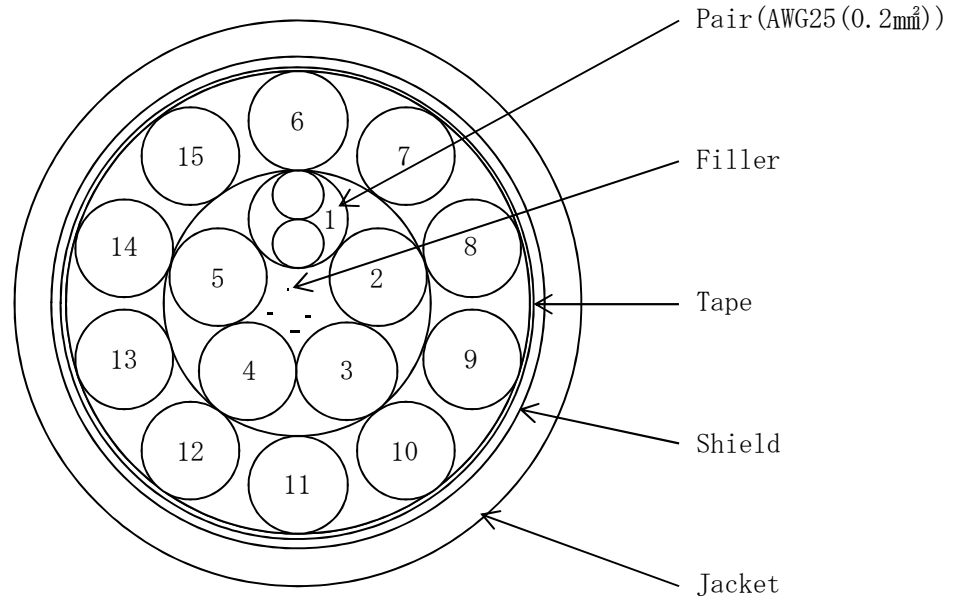
I T E M		V A L U E
Symbol		RMFES-SB-Kr(2517)
Size	AWG(mm <sup>2</sup> )	25 (0.2)
Conductor	Material	Tinned Annealed Copper
	Construction(No./mm)	40/0.08
	Dia. (approx. mm)	0.58
Insulation	Material	ETFE
	Thickness(approx. mm)	0.20
	Dia. (approx. mm)	0.98
Twisting	Dia. (approx. mm)	2.0
Stranding	Center layer	5 P
	First layer	10 P
Tape	—	Binder tape
Shield (Braid)	Material	Tinned Annealed Copper
	Thickness(approx. mm)	0.3
Jacket	Material(color)	Flame retardant • Smooth PVC (Black)
	Thickness(approx. mm)	1.1
Overall diameter(approx. mm)		10.9
Approx. mass(kg/km)		160

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	9	Red×Brown
2	Yellow×White	10	Purple×Brown
3	Green×White	11	Blue×Black
4	Red×White	12	Yellow×Black
5	Purple×White	13	Green×Black
6	Blue×Brown	14	Red×Black
7	Yellow×Brown	15	Purple×Black
8	Green×Brown		

NOT TO SCALE

Revision process

Revised Date	Rivised Items
2012, 2, 6	The first edition
2016, 7, 20 Edition A	Change of cable marking : addition of "-Kr AWG25/15P"