

# DYDEN CORPORATION

ELECTRIC WIRES  
& CABLES PRODUCTS

DATE Dec, 27, 2010

SPEC. No.FSC10-874A

## SPECIFICATION

FOR

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

(RMFES-SB-Kr (2517))

RoHS correspondence

signed by *K. Nishimura*  
K. NISHIMURA

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) AWG28/23P "

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

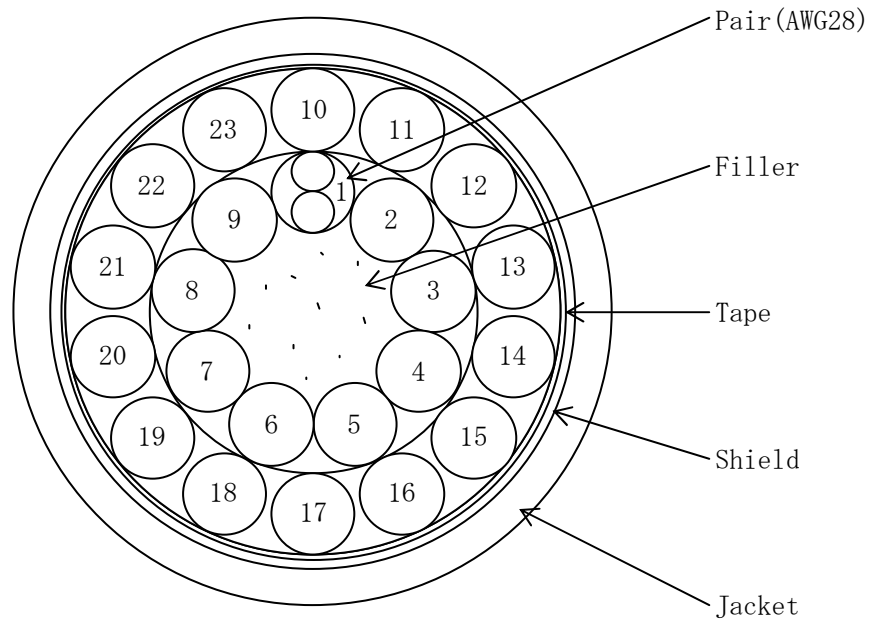
I T E M		V A L U E
Symbol		RMFES-SB-Kr(2517)
Size	AWG	28
Conductor	Material	Tinned Annealed Copper
	Construction (No./mm)	20/0.08
	Dia. (approx. mm)	0.41
Insulation	Material	ETFE
	Thickness (approx. mm)	0.20
	Dia. (approx. mm)	0.81
Twisting	Dia. (approx. mm)	1.6
Stranding	Center layer	9 P
	First layer	14 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)		11.8
Approx. mass (kg/km)		170

Table 2 Characteristics (at 20°C)

I T E M	STANDARD VALUE
Max. DC resistance of conductor ( $\Omega$ /km)	214.7
Min. insulation resistance ( $M\Omega$ -km)	100
Dielectric strength (V/min)	AC 2000

# Fig 1

## Cross-Section of Cable



PairNo.	Colors	PairNo.	Colors
1	Blue×White	13	Green×Black
2	Yellow×White	14	Red×Black
3	Green×White	15	Purple×Black
4	Red×White	16	Blue×Gray
5	Purple×White	17	Yellow×Gray
6	Blue×Brown	18	Green×Gray
7	Yellow×Brown	19	Red×Gray
8	Green×Brown	20	Purple×Gray
9	Red×Brown	21	Blue×Orange
10	Purple×Brown	22	Yellow×Orange
11	Blue×Black	23	Green×Orange
12	Yellow×Black		

NOT TO SCALE