

# DYDEN CORPORATION

ELECTRIC WIRES  
& CABLES PRODUCTS

DATE Feb, 21, 2011

SPEC. No.FSC11-129

## 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) AWG28/18P "

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 — "

\* \* \* \* \*

Table 1 Construction

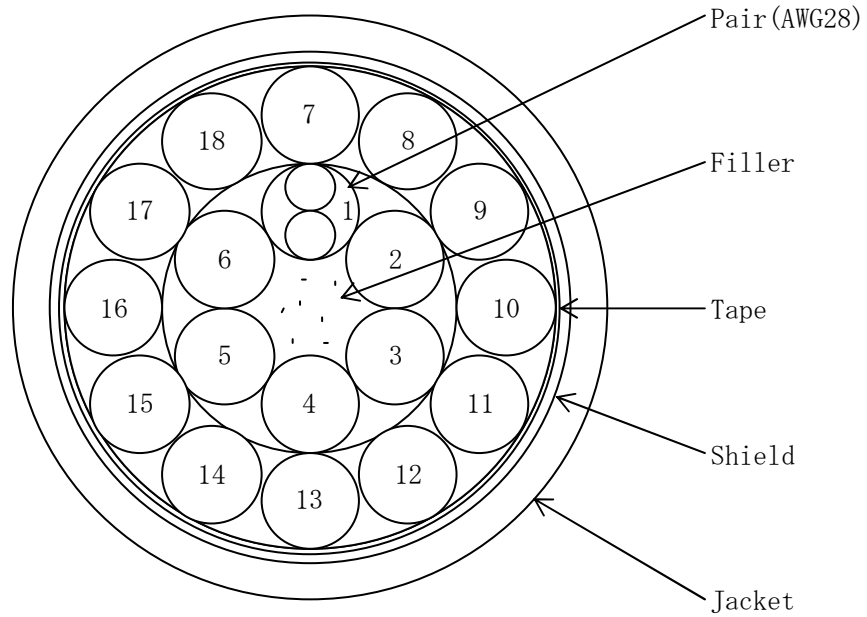
| I T E M                       |                        | V A L U E                            |
|-------------------------------|------------------------|--------------------------------------|
| Symbol                        |                        | RMFES-SB-Kr(2517)                    |
| Size                          | 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           | 6 P                                  |
|                               | First layer            | 12 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) |                        | 10.2                                 |
| Approx. mass (kg/km)          |                        | 130                                  |

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        |

# 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