

DYDEN CORPORATION

ELECTRIC WIRES
& CABLES PRODUCTS

DATE. Nov. 10, 2009

SPEC. No. FSC09-887

SPECIFICATION

FOR

ETHYLENE TETRAFLUOROETHYLENE (ETFE) INSULATED
AND PVC JACKETED CABLE WITH SHIELD
(RMFES - SB - Kr (2517))

| |
|---------------------|
| RoHS correspondence |
|---------------------|

signed by

_____ Y. KAWANAMI

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) AWG28/25P "

3. UL STANDARD

RECOGNIZED 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- RMFES-SB — "

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Table 1 Construction

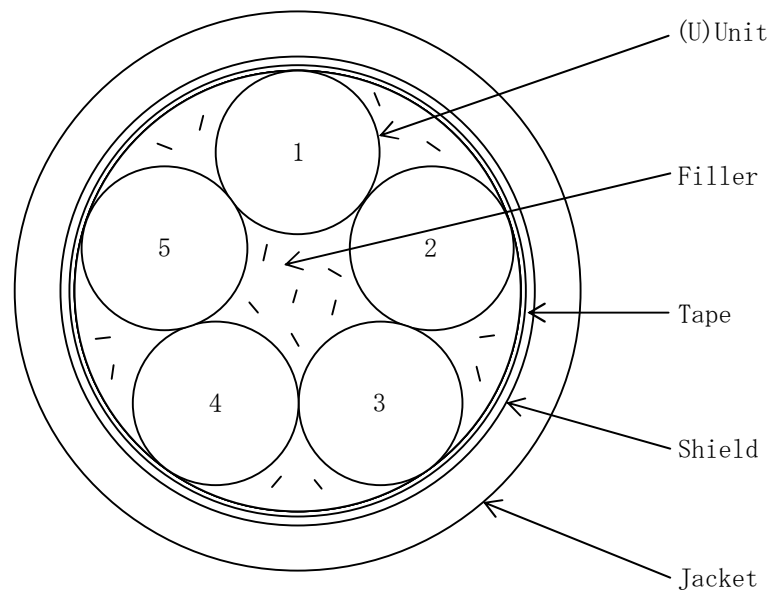
| I T E M | | VALUE |
|------------------------------------|------------------------|-------------------------------------|
| Symbol | | RMFES-SB-Kr (2517) |
| Size | AWG | 28 |
| Conductor | Material | Tinned Annealed Copper |
| | Construction (No. /mm) | 20/0.08 |
| | Dia. (approx. mm) | 0.41 |
| Insulation | Material | ETFE |
| | Thickness (approx. mm) | 0.20 |
| | Dia. (approx. mm) | 0.81 |
| Twisting | Dia. (approx. mm) | 1.6 |
| Unit Stranding | Center layer | 5 P |
| Tape | — | Color tape |
| Unit Overall diameter (approx. mm) | | (U) 3.9 |
| Stranding | Center layer | (U) × 5 |
| Tape | — | Binder tape |
| Shield (Braid) | Material | Tinned Annealed Copper |
| | Thickness (approx. mm) | 0.4 |
| Jacket | Material (color) | Low frictional • Smooth PVC (Black) |
| | Thickness (approx. mm) | 1.3 |
| Overall diameter (approx. mm) | | 14 |
| Approx. mass (kg/km) | | 230 |

Table 2 Characteristics (at 20°C)

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

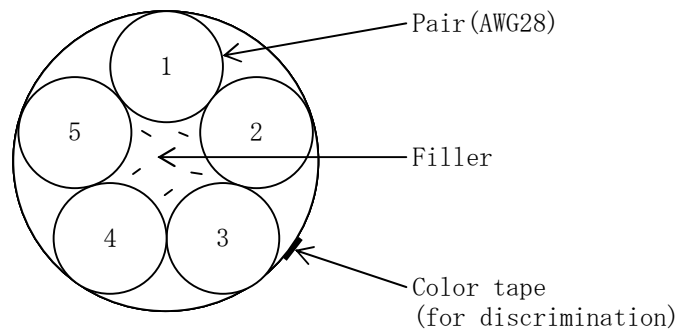
Fig 1

Cross-Section of Cable



| UnitNo. | Color tape |
|---------|------------|
| 1 | Blue |
| 2 | Yellow |
| 3 | Green |
| 4 | Red |
| 5 | Purple |

(U)Unit



| PairNo. | Colors |
|---------|--------------|
| 1 | Blue×White |
| 2 | Yellow×White |
| 3 | Green×White |
| 4 | Red×White |
| 5 | Purple×White |

NOT TO SCALE