

DYDEN CORPORATION

ELECTRIC WIRES
& CABLES PRODUCTS

DATE Nov, 10, 2022

SPEC. No.FSC22-224

SPECIFICATION

FOR

ETHYLENE TETRAFLUOROETHYLENE (ETFE) • CROSS-LINKED POLYETHYLENE (XLPE) INSULATED
AND POLYURETHANE JACKETED CABLE WITH SHIELD

((m)RMFEU-SB)

RoHS correspondence



signed by S. Maeda
S. MAEDA

Manager
Engineering section
Engineering dept
Factory Automation & Robot Cable Division

1. SCOPE

This specification covers the construction, characteristics of the Ethylene Tetrafluoroethylene (ETFE) • Cross-Linked Polyethylene (XLPE) insulated and Polyurethane jacketed cable with shield .

※Rating Voltage : Equivalent to UL758 standard rated voltage 300V

2. SYMBOL, SIZE

The symbol and size of the cable shall be

" (m)RMFEU-SB 1.5mm²/13P+(CM-110) "

3. CONSTRUCTION

The construction of the cable shall conform to Table 1.

4. CHARACTERISTICS

The characteristics of the cable shall be shown in Table 2.

5. MARKING

The following information shall be indicated with a suitable method to the cable.

" 0000mDYDEN (The date of manufact) -LF-. . . . "

Meter mark : Length is printed on the surface of cable with spacing of approximately 1 meters.

0 meter is cable winding starting end.

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Table 1 Construction

I T E M		V A L U E	
Symbol		(m)RMFEU-SB	
Size	mm ²	1.5	0.5
Conductor	Material	Tinned Annealed Copper	Annealed Copper
	Construction (No./mm)	7/40/0.08	3/40/0.08
	Dia. (approx. mm)	1.75	1.26
Insulation	Material	ETFE	XLPE
	Thickness (approx. mm)	0.40	0.85
	Dia. (approx. mm)	2.55	2.96
Twisting	Dia. (approx. mm)	(A) 5.1	—
Unit Stranding	Center layer	—	3 C
Tape	Material	—	Polyester
Shield tape	Material	—	Aluminum polyester tape
Shield (Braid)	Material	—	Tinsel Wire
	Wire diameter (approx. mm)	—	0.25
Inner jacket	Material	—	PVC (Black)
	Thickness (approx. mm)	—	3.5
Unit Overall diameter (approx. mm)		—	(B) 14.8
Stranding	Center layer	(B) × 1	
	First layer	(A) × 13	
Tape	Material	Polyester	
Shield (Braid)	Material	Tinned Annealed Copper	
	Thickness (approx. mm)	0.5	
Jacket	Material (color)	Polyurethane (Black)	
	Thickness (approx. mm)	1.5	
Overall diameter (approx. mm)		28.2	
Approx. mass (kg/km)		1050	

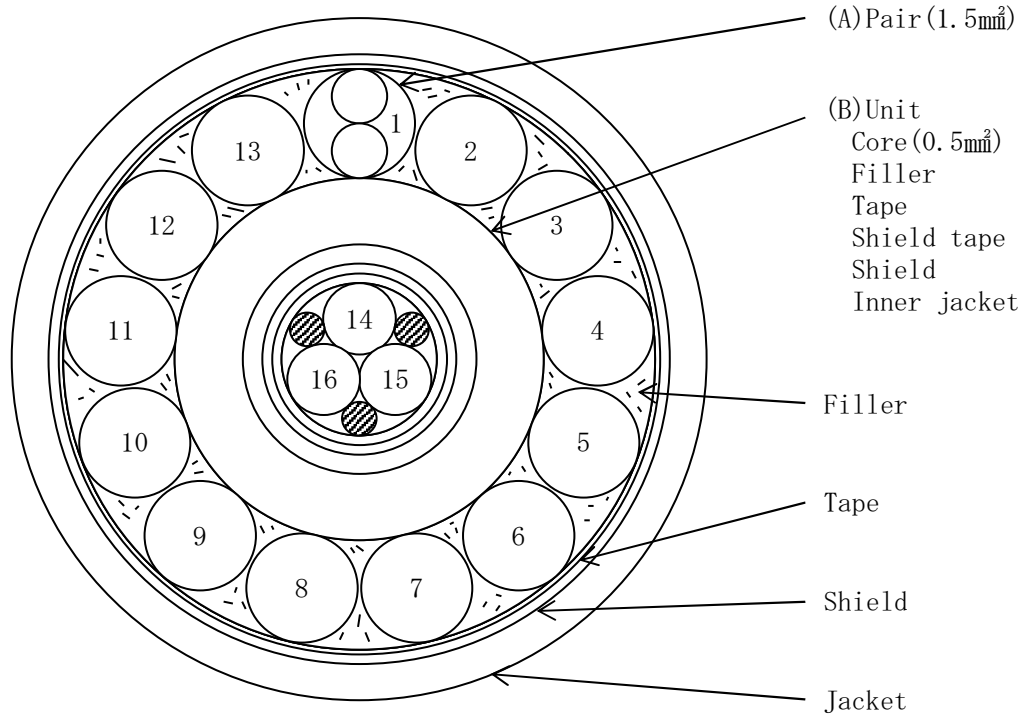
Table 2 Characteristics (at 20°C)

I T E M		S T A N D A R D V A L U E	
Max. DC resistance of conductor (Ω/km)		15.3	37.8
Min. insulation resistance (MΩ-km)		100	
Dielectric strength (V/min)		AC 2000	
Capacitance (nF/km)	* at 1KHz	—	60
Impedance (Ω)	* at 1MHz	—	110 ± 15
	* at 5MHz	—	110 ± 6
Max. Attenuation (dB/100m)	* at 1MHz	—	2.2
	* at 5MHz	—	6.4

※(B)Unit is conform with the spec of CC-Link Ver.1.10, and designed movement type.
Please take care of the wiring length depend on the attenuation.

Fig 1

Cross-Section of Cable



(A) Pair (1.5mm²)

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

(B) Unit Core (0.5mm²)

CoreNo.	Colors
14	Blue
15	White
16	Yellow