

DYDEN CORPORATION

ELECTRIC WIRES
& CABLES PRODUCTS

DATE Apr. 7, 2014
SPEC. No FSC10-098C

SPECIFICATION

FOR

FEP INSULATED
AND PVC JACKETED CABLE WITH SHIELD

(RM-CAT5 e (20276))

RoHS correspondence



signed by *K. Nishimura*
K. NISHIMURA

Manager
Engineering section
Engineering dept
Factory Automation & Robot Cable Division

1. SCOPE

This specification covers the construction, characteristics of the FEP insulated and PVC jacketed cable with shield .

2. SYMBOL, SIZE

The symbol and size of the cable shall be

" RM-CAT5e(20276) AWG26/4P "

3. UL STANDARD

RECONGNIZED by UNDERWRITERS LABORATORIES Inc.

STYLE No.	20276 (UL 758 : AWM)
Rating TEMP.	80°C
VOLT.	30V
USE	Construction A Internal wiring or external interconnection of electronic equipment in Class 2 circuits only.

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 20276 80C 30V VW-1 -LF- RM-CAT5e AWG26/4P — "

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Table 1 Construction

I T E M		V A L U E
Symbol		RM-CAT5e (20276)
Size	AWG	26
Conductor	Material	Annealed Copper
	Construction (No./mm)	33/0.08
	Dia. (approx. mm)	0.53
Insulation	Material	FEP
	Thickness (approx. mm)	0.22
	Dia. (approx. mm)	0.97
Twisting	Dia. (approx. mm)	1.9
Stranding	Center layer	4 P
Tape	—	Binder tape
Shield tape	Material	Copper polyester tape
Shield (Braid)	Material	Tinsel Wire
	Wire diameter (approx. mm)	0.1
Jacket	Material (color)	Flame retardant • Smooth PVC (Black)
	Thickness (approx. mm)	0.85
Overall diameter (mm)		6.8(±0.3)
Approx. mass (kg/km)		55

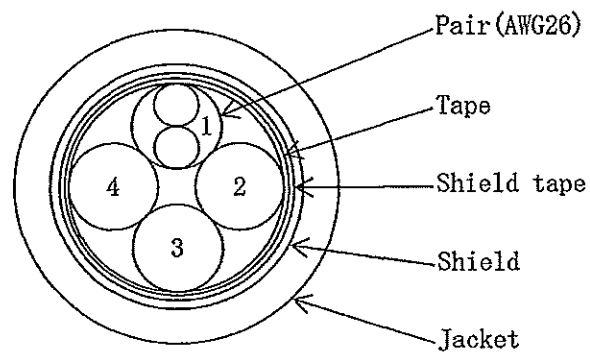
Table 2 Characteristics (at 20°C)

I T E M	S T A N D A R D V A L U E
Max. DC resistance of conductor (Ω /km)	123.5
Min. insulation resistance ($M\Omega$ -km)	100
Dielectric strength (V/min)	AC 500
Characteristic impedance. (Ω)	85~115 (at 1~100MHz)

※Limit of the communications distance. (max 45m)

F i g 1

C r o s s - S e c t i o n o f C a b l e



Pair	Colors
1	Blue×White
2	Orange×White
3	Green×White
4	Brown×White

NOT TO SCALE

Revision process

Revised Date	Rivised Items
2010, 2, 22	The first edition
2011, 11, 17 Edition A	Addition of limit of the communications distance. (max 45m)
2013, 9, 23 Edition B	Change of Cable Marking. —DYDEN E91337 PA AWM 20276 80C 30V VW-1 -LF- — → —DYDEN E91337 PA AWM 20276 80C 30V VW-1 -LF- RM-CAT5e AWG26/4P—
2014, 4, 7 Edition C	Change of Shield tape. Aluminum polyester tape → Copper polyester tape