

To : _____

SPECIFICATION

For

UL-ETFE insulated wire

10AWG、12AWG、14AWG、16AWG、18AWG、20AWG、
22AWG、24AWG、26AWG、28AWG、30AWG

UL10584 (Rating: 150°C, 600V)

(Color can be designated by order)

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Approval	Check	Author
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1. Application

This Specifications are applied to UL-ETFE insulated wire.

Conductor size : 10AWG, 12AWG, 14AWG, 16AWG, 18AWG, 20AWG, 22AWG, 24AWG, 26AWG, 28AWG, 30AWG

UL10584 (Rating:150°C, 600V)

(Color can be designated by order)

2. Construction

Item		Specification			
		10AWG	12AWG	14AWG	16AWG
Conductor	Material	Tinned Annealed Copper Wire			
	Construction	7/160/0.08mm	7/100/0.08mm	7/65/0.08mm	7/40/0.08mm
	Normal Diameter (mm)	3.50	2.70	2.20	1.70
Insulation	Material・Color	ETFE・Color can be designated by order			
	Normal Thickness (mm)	0.40	0.40	0.40	0.40
	Normal Diameter (mm)	4.30	3.50	3.00	2.50
Approx. net weight (kg/km)		61	40	25	20
※Allowable current (A) (at30°C)		46	42	39	27

Item		Specification			
		18AWG	20AWG	22AWG	24AWG
Conductor	Material	Tinned Annealed Copper Wire			
	Construction	7/25/0.08mm	110/0.08mm	70/0.08mm	50/0.08mm
	Normal Diameter (mm)	1.35	0.95	0.77	0.65
Insulation	Material・Color	ETFE・Color can be designated by order			
	Normal Thickness (mm)	0.40	0.30	0.30	0.25
	Normal Diameter (mm)	2.15	1.55	1.37	1.15
Approx. net weight (kg/km)		10	7	5	3.5
※Allowable current (A) (at30°C)		20	14	10	8

Item		Specification		
		26AWG	28AWG	30AWG
Conductor	Material	Tinned Annealed Copper Wire		
	Construction	30/0.08mm	20/0.08mm	12/0.08mm
	Normal Diameter (mm)	0.50	0.41	0.30
Insulation	Material・Color	ETFE・Color can be designated by order		
	Normal Thickness (mm)	0.20	0.20	0.20
	Normal Diameter (mm)	0.90	0.81	0.70
Approx. net weight (kg/km)		2	1.5	1
※Allowable current (A) (at30°C)		5	4	3

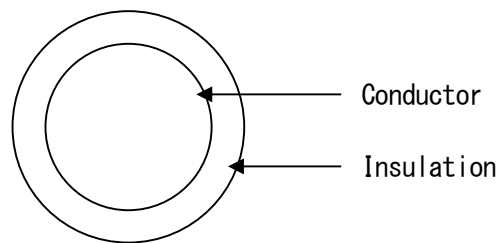
※Allowable current is when one insulated wire only is laid, there is no other insulated wire adjacent, and air flow is a standard value when it is good.

3. Electrical characteristics (Standard value)

Item	Specification					
	10AWG	12AWG	14AWG	16AWG	18AWG	20AWG
Max. Conductor resistance Ω/km (at 20deg.C)	3.5	5.4	8.9	15.0	23.0	37.0
Spark test (AC) (V)	6,000 (A. C.)					

Item	Specification				
	22AWG	24AWG	26AWG	28AWG	30AWG
Max. Conductor resistance Ω/km (at 20deg.C)	57.0	80.0	125.0	195.0	331.4
Spark test (AC) (V)	6,000 (A. C.)				

4. Arrangement figure



5. Standard Length

100m (Packing : Bunch) : 10AWG, 12AWG

200m (Packing : Bunch) : 14AWG, 16AWG, 18AWG, 20AWG, 22AWG, 24AWG, 26AWG, 28AWG, 30AWG

ETFE WIRE

10AWG, 12AWG, 14AWG, 16AWG, 18AWG, 20AWG, 22AWG, 24AWG, 26AWG, 28AWG, 30AWG

UL10584 (150°, 600V)

대수	도체 (주석도금 연동선)				절연체 (ETFE, 색상지정)		통합 편조 섀드	외피 (내유, 내열PVC)		전기특성			
	사이즈		소선구성	표준외경	표준두께	표준외경		표준두께	표준외경	도체저항	절연저항	내전압	전류용량
	AWG	SQ	EA/EA/mm	mm	mm	mm		mm	mm	Ω /km (20°C)	M Ω ·km (20°C)	V·분	A (30°C)
	10		7/160/0.08	3.50		4.30				~3.5		6000 (AC)	46
	12		7/100/0.08	2.70		3.50				~5.4			42
	14		7/65/0.08	2.20		3.00				~8.9			39
	16		7/40/0.08	1.70		2.50				~15.0			27
	18		7/25/0.08	1.35		2.15				~23.0			20
	20		110/0.08	0.95	0.30	1.55				~37.0			14
	22		70/0.08	0.77		1.37				~57.0			10
	24		50/0.08	0.65	0.25	1.15				~80.0			8
	26		30/0.08	0.50		0.90				~125.0			5
	28		20/0.08	0.41	0.20	0.81				~195.0			4
	30		12/0.08	0.30		0.70				~331.4			3