

PVC Insulated Non-sheathed Cables (Single-Core)

227IEC01 CU/PVC 450/750V 1.5mm² PACIFIC 2015, or
227IEC05 CU/PVC 300/500V 1.0mm² PACIFIC 2015



PRODUCT DESCRIPTION

- Rated Temperature : 70°C
- Rated Voltage : 450/750V & 300/500V
- Reference Standard : IEC60227
- Model : 227IEC01 & 227IEC05
- Conductor : Bare solid or stranded copper
- Insulation : Lead-free & Flame-retardant PVC
- Voltage withstand : min. 2.5kV
- Chemical resistant (Sulphur acid, Hydrochloric acid, Alcohol, etc.) : good

- Low Temperature withstand : - 10°C
- Flame retardancy : Horizontal

APPLICATION

Industrial wiring for fixed installation in trunk or conduit.

COLOR OF INSULATION

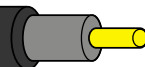
Black, Brown, Yellow, Blue, Red, Green/Yellow or others if required.

PVC INSULATED NON-SHEATHED CABLES

公稱截面積	導體結構	絕緣厚度	約計外徑	約計重量	最大導體電阻
Nominal area of conductor	Conductor construction	Thickness of Insulation	Approx. overall diameter	Approx. weight of cable	Max. Conductor D.C. Resistance at 20°C
mm ²	NO./mm	mm	mm	Kg/km	Ω/km
227IEC05 300/500V					
0.5	1/0.8	0.6	2.2	10	36.0
0.75	1/0.98	0.6	2.4	13	24.5
1.0	1/1.13	0.6	2.5	15	18.1
227IEC01 450/750V					
1.5	1/1.38	0.7	2.9	21	12.1
1.5	7/0.53	0.7	3.1	23	12.1
2.5	1/1.78	0.8	3.5	33	7.41
2.5	7/0.67	0.8	3.7	35	7.41
4	1/2.25	0.8	4.0	48	4.61
4	7/0.85	0.8	4.3	51	4.61
6	1/2.76	0.8	4.5	67	3.08
6	7/1.04	0.8	4.8	72	3.08
10	7/1.35	1.0	5.9	120	1.83
16	7/1.70	1.0	6.8	180	1.15
25	7/2.14	1.2	8.4	270	0.727
35	19/1.53	1.2	9.6	360	0.524
50	19/1.78	1.4	11.5	490	0.387
70	19/2.14	1.4	13.0	690	0.268
95	19/2.52	1.6	15.0	950	0.193
120	37/2.03	1.6	16.5	1180	0.153
150	37/2.25	1.8	18.5	1460	0.124
185	37/2.52	2.0	20.5	1810	0.0991
240	61/2.25	2.2	23.0	2350	0.0754
300	61/2.52	2.4	26.0	2950	0.0601
400	61/2.85	2.6	29.0	3750	0.0470

PVC Insulated Non-sheathed Cables (Single-Core)

IEC60502-1 CU/PVC/PVC 0.6/1kV 150mm² PACIFIC 2015



PRODUCT DESCRIPTION

- Rated Temperature : 70°C
- Rated Voltage : 0.6/1kV
- Reference Standard : IEC60502-1
- Model : CU/PVC/PVC
- Conductor : Bare solid or stranded copper
- Insulation and Sheath : Lead-free & Flame-retardant PVC
- Voltage withstand : min. 3.5kV
- Chemical resistant (Sulphur acid, Hydrochloric acid, Alcohol, etc.) : good

- Low Temperature withstand : - 10°C
- Flame retardancy : Horizontal

APPLICATION

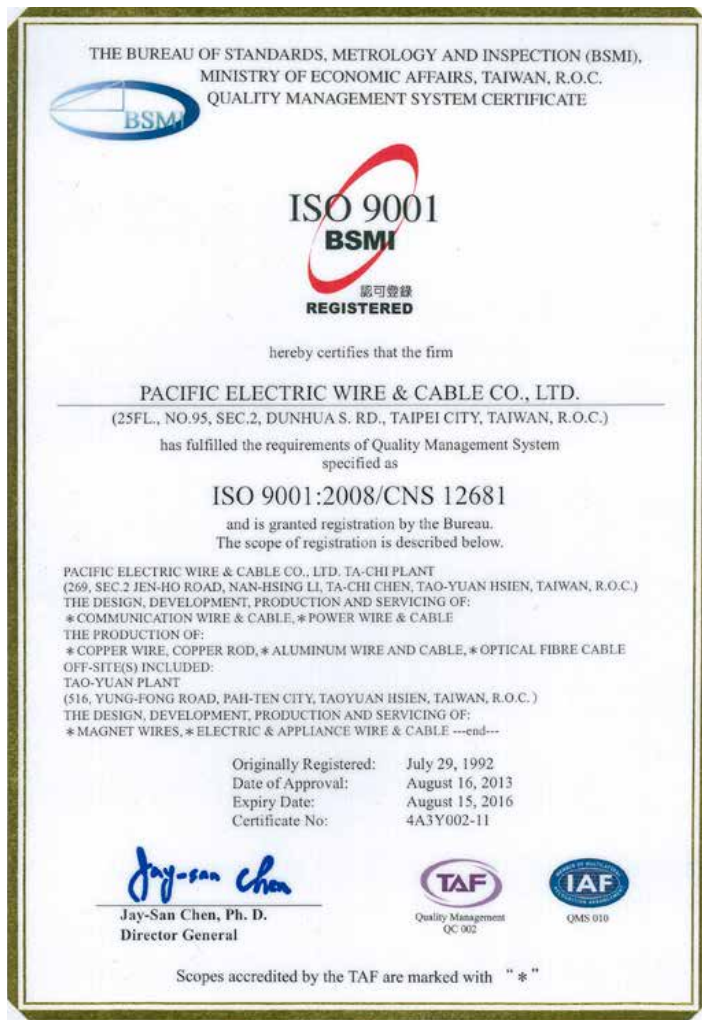
Industrial wiring for fixed installation in trunk or conduit, or highly protection and humidity resistant conditions.


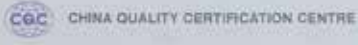
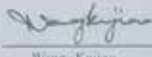
COLOR OF INSULATION

Black

600/1000V PVC INSULATED AND PVC SHEATHED CABLES

Nominal area of conductor	Conductor construction	Thickness of Insulation	Thickness of sheath	Approx. overall diameter	Approx. weight of cable	Max. Conductor D.C. Resistance at 20°C
mm ²	NO./mm	mm	mm	mm	Kg/km	Ω/km
1.5	1/1.38	0.8	1.4	5.9	51	12.1
1.5	7/0.53	0.8	1.4	6.1	54	12.1
2.5	1/1.78	0.8	1.4	6.3	63	7.41
2.5	7/0.67	0.8	1.4	6.5	66	7.41
4	1/2.25	1.0	1.4	7.3	89	4.61
4	7/0.85	1.0	1.4	7.6	95	4.61
6	1/2.76	1.0	1.4	7.8	115	3.08
6	7/1.04	1.0	1.4	8.1	120	3.08
10	7/1.35	1.0	1.4	8.7	160	1.83
16	7/1.70	1.0	1.4	9.6	230	1.15
25	7/2.14	1.2	1.4	11.5	330	0.727
35	19/1.53	1.2	1.4	12.5	430	0.524
50	19/1.78	1.4	1.4	14.0	570	0.387
70	19/2.14	1.4	1.4	15.5	770	0.268
95	19/2.52	1.6	1.5	18.0	1050	0.193
120	37/2.03	1.6	1.6	19.5	1300	0.153
150	37/2.25	1.8	1.6	21.5	1580	0.124
185	37/2.52	2.0	1.7	24.0	1970	0.0991
240	61/2.25	2.2	1.8	27.0	2550	0.0754
300	61/2.52	2.4	1.9	29.5	3180	0.0601
400	61/2.85	2.6	2.0	33.0	4000	0.0470



		Ref. Certif. No. CN35062
IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) / SYSTEME CEI D'ACCEPTATION MUTUELLE DE CERTIFICATS D'ESSAIS DES EQUIPEMENTS ELECTRIQUES (IECEE) METHODE OC		
CB TEST CERTIFICATE		
Product Produit	Single-core non-armoured cable with rigid conductor for general purposes	
Name and address of the applicant Nom et adresse du demandeur	PACIFIC ELECTRIC WIRE & CABLE CO., LTD. 25F., No.95,Sec.2, Dunhua S. Rd., Taipei City, Taiwan	
Name and address of the manufacturer Nom et adresse du fabricant	PACIFIC ELECTRIC WIRE & CABLE CO., LTD. 25F., No.95,Sec.2, Dunhua S. Rd., Taipei City, Taiwan	
Name and address of the factory Nom et adresse de l'usine	Dasi Plant, PACIFIC ELECTRIC WIRE & CABLE CO., LTD. No.209, Sec.2, Renhe Rd., Dasi Township, Taoyuan County, Taiwan	
Ratings and principal characteristics Valeurs nominales et caractéristiques principales	60227 IEC 01 450/750 V 1,5-400	
Trademark (if any) Marque de fabrique (s'il y a lieu)	60227 IEC 01 450/750 V 1,5-400	
Model / Type Ref. Ref. du type	60227 IEC 01 450/750 V 1,5-400	
Additional information (if necessary) may also be reported on page 2) Les informations complémentaires (si nécessaire, peuvent être indiqués sur la 2 ^{ème} page)	PUBLICATION EDITION IEC 60227-3:1993 + A1:1997 for use with IEC 60227-1 and IEC 60227-2	
A sample of the product was tested and found to be in conformity with Un échantillon de ce produit a été essayé et a été trouvé conforme à la	TICW15-032-1, TICW15-032-2	
As shown in the Test Report Ref. No. which forms part of this Certificate Comme indiqué dans le Rapport d'essai numéro de référence qui constitue partie de ce Certificat	TICW15-032-1, TICW15-032-2	
This CB Test Certificate is issued by the National Certification Body Ce Certificat d'essai OC est établi par l'Organisation Nationale de Certification		
		
Date: 2015-08-28	Signature:  Wang Kejian	

Issued 2003-05
 China Quality Certification Centre
 Section 5, No.188, Nanshan Road, Beijing 100070 P.R.China
 Tel: +86-10-83866666
 Fax: +86-10-83862821
 website: www.cqc.com.cn

CB 0029340

		Ref. Certif. No. CN35061
IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) / SYSTEME CEI D'ACCEPTATION MUTUELLE DE CERTIFICATS D'ESSAIS DES EQUIPEMENTS ELECTRIQUES (IECEE) METHODE OC		
CB TEST CERTIFICATE		
Product Produit	Power cables with extruded PVC insulation and PVC sheath for rated voltages of 1kV (Um=1.2kV)	
Name and address of the applicant Nom et adresse du demandeur	PACIFIC ELECTRIC WIRE & CABLE CO., LTD. 25F., No.95,Sec.2, Dunhua S. Rd., Taipei City, Taiwan	
Name and address of the manufacturer Nom et adresse du fabricant	PACIFIC ELECTRIC WIRE & CABLE CO., LTD. 25F., No.95,Sec.2, Dunhua S. Rd., Taipei City, Taiwan	
Name and address of the factory Nom et adresse de l'usine	Dasi Plant, PACIFIC ELECTRIC WIRE & CABLE CO., LTD. No.209, Sec.2, Renhe Rd., Dasi Township, Taoyuan County, Taiwan	
Ratings and principal characteristics Valeurs nominales et caractéristiques principales	CU/PVC/PVC 0.6/1KV (1.5-400)-1-core	
Trademark (if any) Marque de fabrique (s'il y a lieu)	CU/PVC/PVC 0.6/1KV (1.5-400)-1-core	
Model / Type Ref. Ref. du type	CU/PVC/PVC 0.6/1KV (1.5-400)-1-core	
Additional information (if necessary) may also be reported on page 2) Les informations complémentaires (si nécessaire, peuvent être indiqués sur la 2 ^{ème} page)	PUBLICATION EDITION IEC 60502-1:2004+A1:2009	
A sample of the product was tested and found to be in conformity with Un échantillon de ce produit a été essayé et a été trouvé conforme à la	TICW15-032-1, TICW15-032-2	
As shown in the Test Report Ref. No. which forms part of this Certificate Comme indiqué dans le Rapport d'essai numéro de référence qui constitue partie de ce Certificat	TICW15-032-1, TICW15-032-2	
This CB Test Certificate is issued by the National Certification Body Ce Certificat d'essai OC est établi par l'Organisation Nationale de Certification		
		
Date: 2015-08-28	Signature:  Wang Kejian	

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 Fax: +86-10-83862821
 website: www.cqc.com.cn

CB 0029338

COMPARSION WITH IEC 60245 AND BS7919

STANDARD	IEC 60245 Rubber Insulated Cables		BS 7919 XLPE Insulation	
	INSULATION	SHEATH	INSULATION	SHEATH
TEMPERATURE RATING	90°C		110°C	
VOLTAGE RATING	300/500V		300/500V	
CABLE TYPE	Type 53 (YZ)		H05GG-F	
	INSULATION	SHEATH	INSULATION	SHEATH
1. VOLTAGE TEST	2kV/5min	2kV/5min	2kV/5min	2kV/15min
2. SPARK TEST	-	-	2KV	-
3. FLEXING TEST	-	15,000 times	-	30,000 times
4. TENSILE STRENGTH	-	No broken.	6.5 N/mm ²	No broken.
5. ELOGATION AT BREAK	200%	7 N/mm ²	200%	6.5 N/mm ²
6. AGEING TEST	100°C /168hr	300%	150°C /240hr	200%
MINIMUM OF TENSILE STRENGTH	4.2 N/mm ²	70°C /240hr	-	150°C /240hr
MAXIMUM OF VARIATION	±25%	-	±30%	-
MINIMUM OF ELOGATION	200%	±20%	-	±30%
MAXIMUM OF VARIATION	±25%	250%	±30%	300%
7. COLD BENDING				
TEST OF CONDITION	-	-	-	-15°C/16h
REQUIREMENT	-	-	-	No crack
REMARK	1.Temperature rating: BS7919 is 110°C, higher than IEC60245's 90°C 2.Flexing test: BS7919 is 30000 times, higher than IEC60245's 15000 times.			

Track Record of Cable (2000~2017)

Item No.	Description & value of the Work			Location	Period	End Customer
	Rated Voltage	Size	Length (KM)			
1	600V	8sq~125sq	6,702.0	Taiwan	2000~2008	Taiwan Power Company
2	600V	38sq~150sq	223.0	Taiwan	2000	Mai-Liao Power Corporation
3	600V	1.25sq~325sq	2,801.0	Taiwan	2003~2009	Taiwan High Speed Rail Corporation
4	600V	2sq~60sq	3,206.9	Taiwan	2005~2008	Kaohsiung Rapid Transit Corporation
5	600V	1.4sq~25sq	168.3	Philippines	2006	Metro Rail Transit Corporation
6	600V	0.5sq~300sq	429.9	Dubai	2008~2010	Roads and Transport Authority
7	600V	2~6AWG, 1~2C	171.0	Guam	2007~2011	Guam Power Association
8	600V	1/0AWG, 3C	3.7	Guam	2007~2010	Guam Power Association
9	600V	2/0AWG, 1~3C	12.5	Guam	2008~2009	Guam Power Association
10	600V	250MCM~500MCM	17.1	Guam	2008~2009	Guam Power Association
11	600V	1.5sq~300sq	1,019.3	Macau	2014~2016	Gabinete para as Infra-estruturas de Transpotes
12	600V	0.64sq~25sq	794.2	Taiwan	2013	Taipei Rapid Transit Corporation(TTY Line)
13	600V	1.25sq~325sq	49.2	Cambodia	2014	Cambodia Power plant (private)
14	AAC	336.4MCM	48.8	Guam	2009~2011	Guam Power Association
15	POL FF	0.5mm,5P~600P	199.0	Singapore	2011	Singapore Telecommunication Limited
16	POL FF	0.63mm,20P~100P	5.0	Singapore	2011	Singapore Telecommunication Limited
17	1kV	120sq~500sq	208.3	Taiwan	2016	Taipei Rapid Transit Corporation(Taichung)
18	3kV	185sq~300sq	83.4	Macau	2014~2016	Gabinete para as Infra-estruturas de Transpotes
19	3.3kV	35sq~300sq	23.8	Dubai	2009~2010	Dubai International Airport
20	6.6kV	35sq~95sq., 3C	6.1	Singapore	2012	Epan Industries
21	8kV	60sq~400sq., 1C	10.2	Taiwan	2013	Taiwan Semiconductor Manufacturing Company
22	15kV	100sq~300sq., 1C	1.6	Taiwan	2007	Mitsubishi Electric Corporation
23	15kV(AL)	2AWG, 1C	25.9	Guam	2010~2012	Guam Power Association
24	15kV(AL)	2/0AWG, 1C	108.5	Guam	2008~2012	Guam Power Association
25	15kV	474MCM	4,665.5	Taiwan	2001~2011	Taiwan Power Company
26	15kV	2AWG, 1C	4,142.0	Taiwan	2005~2013	Taiwan Power Company
27	22kV	630sq., 1C	1.1	Singapore	2005	Sigma Cable
28	22kV(AL)	120sq~500sq	979.0	Taiwan	2006~2011	Taipei Rapid Transit Corporation(Hsin Chuang Line)
29	22kV	240sq., 1C	45.0	Taiwan	2006~2008	Taipei Rapid Transit Corporation(Hsin Chuang Line)
30	22kV	185sq~300sq., 3C	5.6	Singapore	2007~2008	Epan Industries
31	22kV(AL)	120sq~500sq	259.2	Taiwan	2010~2012	Taipei Rapid Transit Corporation(Hsin Yi Line)
32	22kV	500sq, 1C	4.3	Taiwan	2011~2013	Taipei Rapid Transit Corporation(Hsin Yi Line)
33	22kV(AL)	100sq~325sq., 1C	688.4	Taiwan	2010~2013	Taipei Rapid Transit Corporation(TTY Line)
34	22kV(AL)	120sq~400sq., 1C	256.0	Taiwan	2016	Taipei Rapid Transit Corporation(Taichung)
35	22kV	120sq~150sq., 1C	104.1	Taiwan	2016	Taipei Rapid Transit Corporation(Tamhai Line)
36	22kV(AL)	200sq~500sq., 1C	283.9	Taiwan	2016~2017	Taipei Rapid Transit Corporation(Circuit Line)
37	22kV	185sq~240sq	314.0	Macau	2014~2016	Gabinete para as Infra-estruturas de Transpotes
38	25kV	200sq., 1C	6.3	Taiwan	2007	Mitsubishi Electric Corporation
39	25kV	38Ssq., 1C	26.1	Taiwan	2007~2008	Taiwan High Speed Rail Corporation
40	25kV	500MCM	9,765.2	Taiwan	2001~2013	Taiwan Power Company
41	25kV	1000MCM	12.0	Taiwan	2011	Taiwan Power Company
42	25kV	60sq~500sq., 1C	33.8	Taiwan	2013	Taiwan Semiconductor Manufacturing Company
43	25kV(AL)	100sq~630sq., 1C	69.4	Taiwan	2010~2013	Infraest Group
44	33kV	150sq~400sq., 1C	545.5	Dubai	2007~2009	Roads and Transport Authority
45	35kV			Myanmar	2013	
46	35kV(AL)	1000MCM	1.0	Guam	2008	Guam Power Association
47	66kV	200sq.~400sq	58.7	Korea	2006~2011	Korean Railway Authority
48	66kV	500sq~1000sq., 1C	1.1	Singapore	2006	Epan Industries
49	66kV	1000sq., 1C	947.8	Singapore	1997~2014	Singapore PowerGrid
50	69kV	1000sq~1600sq., 1C	901.9	Taiwan	1986~2014	Taiwan Power Company
51	161kV	250sq., 1C	1.2	Taiwan	1992	Taipei Rapid Transit Corporation(Wen Hu Line)
52	161kV	800sq~2000sq., 1C	1,036.6	Taiwan	1995~2014	Taiwan Power Company