

PHELPS DODGE CABLE TYPE 60227 IEC 01 (THW)

450/750 V 70°C PVC/C INSULATED, SINGLE CORE



CONSTRUCTION :

Conductor : Annealed copper, solid or stranded (concentric or compact as requested)

Conductor Sizes : 1.5 mm² up to 400 mm²

Insulation : Polyvinyl chloride type PVC/C. (Any color as requested)

APPLICATION :

Building wiring for installation on insulator or in raceway dry location.

CLASSIFICATION :

Maximum conductor temperature 70°C
Circuit voltage does not exceed 450/750 volts.

REFERENCE STANDARD :

TIS 11 PART 3 - 2553 TABLE 1

CABLE TYPE	Nominal Sectional Area	Conductor Type	Diameter of Conductor (max)	Nominal Thickness of Insulation	Overall Diameter (min-max)	Minimum Insulation Resistance at 70°C	Current rating in free air	Cable Weight (approx)	Standard Packing**
	mm ²	Class*	mm	mm	mm	MΩ•km	A	kg / km	m
60227 IEC 01 1x1.5	1.5	1	1.5	0.7	2.6 - 3.2	0.011	21	21	100/C
60227 IEC 01 1x1.5	1.5	2	1.7	0.7	2.7 - 3.3	0.010	21	22	100/C
60227 IEC 01 1x2.5	2.5	1	1.9	0.8	3.2 - 3.9	0.010	29	33	100/C
60227 IEC 01 1x2.5	2.5	2	2.2	0.8	3.3 - 4.0	0.009	29	35	100/C
60227 IEC 01 1x4	4	1	2.4	0.8	3.6 - 4.4	0.0085	37	47	100/C
60227 IEC 01 1x4	4	2	2.7	0.8	3.8 - 4.6	0.0077	37	51	100/C
60227 IEC 01 1x6	6	2	3.3	0.8	4.3 - 5.2	0.0065	48	74	100/C
60227 IEC 01 1x10	10	2	4.2	1.0	5.6 - 6.7	0.0065	67	123	100/C
60227 IEC 01 1x16	16	2	5.3	1.0	6.4 - 7.8	0.0050	92	185	100/C
60227 IEC 01 1x25	25	2	6.6	1.2	8.1 - 9.7	0.0050	127	289	100/C
60227 IEC 01 1x35	35	2	7.9	1.2	9.0 - 10.9	0.0043	157	390	100/C
60227 IEC 01 1x50	50	2	9.1	1.4	10.6 - 12.8	0.0043	191	519	1000/R
60227 IEC 01 1x70	70	2	11.0	1.4	12.1 - 14.6	0.0035	244	729	1000/R
60227 IEC 01 1x95	95	2	12.9	1.6	14.1 - 17.1	0.0035	297	1,007	1000/R
60227 IEC 01 1x120	120	2	14.5	1.6	15.6 - 18.8	0.0032	345	1,246	1000/R
60227 IEC 01 1x150	150	2	16.2	1.8	17.3 - 20.9	0.0032	397	1,533	1000/R
60227 IEC 01 1x185	185	2	18.0	2.0	19.3 - 23.3	0.0032	453	1,921	1000/R
60227 IEC 01 1x240	240	2	20.6	2.2	22.0 - 26.6	0.0032	535	2,505	500/R
60227 IEC 01 1x300	300	2	23.1	2.4	24.5 - 29.6	0.0030	617	3,132	500/R
60227 IEC 01 1x400	400	2	26.1	2.6	27.5 - 33.2	0.0028	741	3,987	500/R

*Class

1 = Solid conductor
2 = Stranded conductor
5 = Flexible conductor

**Standard Packing

C = Packing in coil
R = Packing in reel

PHELPS DODGE CABLE TYPE 60227 IEC 02 (THWF)

450/750 V 70°C PVC/C INSULATED, FLEXIBLE SINGLE CORE

CONSTRUCTION : Conductor : Annealed flexible copper
 Conductor Sizes : 1.5 mm² up to 240 mm²
 Insulation : Polyvinyl chloride type PVC/C
 [Any color as requested]

APPLICATION : Building wiring for installation on insulator or in raceway, dry location.

CLASSIFICATION : Maximum conductor temperature 70°C
 Circuit voltage does not exceed 450/750 volts.

REFERENCE STANDARD : TIS 11 PART 3 - 2553 TABLE 3



CABLE TYPE	Nominal Sectional Area	Conductor Type	Diameter of Conductor (max)	Nominal Thickness of Insulation	Overall Diameter (min-max)	Minimum Insulation Resistance at 70°C	Current rating in free air	Cable Weight (approx)	Standard Packing**
	mm ²	Class*	mm	mm	mm	MΩ•km	A	kg / km	m
60227 IEC 02 1x1.5	1.5	5	1.8	0.7	2.8 - 3.4	0.0100	16	22	100/C
60227 IEC 02 1x2.5	2.5	5	2.4	0.8	3.4 - 4.1	0.0090	25	35	100/C
60227 IEC 02 1x4	4	5	3.0	0.8	3.9 - 4.8	0.0070	30	48	100/C
60227 IEC 02 1x6	6	5	3.9	0.8	4.4 - 5.3	0.0060	39	69	100/C
60227 IEC 02 1x10	10	5	5.1	1.0	5.7 - 6.8	0.0056	51	127	100/C
60227 IEC 02 1x16	16	5	6.3	1.0	6.7 - 8.1	0.0046	73	187	100/C
60227 IEC 02 1x25	25	5	7.8	1.2	8.4 - 10.2	0.0044	97	291	100/C
60227 IEC 02 1x35	35	5	9.2	1.2	9.7 - 11.7	0.0038	140	409	100/C
60227 IEC 02 1x50	50	5	11.0	1.4	11.5 - 13.9	0.0037	175	560	1000/R
60227 IEC 02 1x70	70	5	13.1	1.4	13.2 - 16.0	0.0032	216	792	1000/R
60227 IEC 02 1x95	95	5	15.1	1.6	15.1 - 18.2	0.0032	258	1,055	1000/R
60227 IEC 02 1x120	120	5	17.0	1.6	16.7 - 20.2	0.0029	302	1,352	1000/R
60227 IEC 02 1x150	150	5	19.0	1.8	18.6 - 22.5	0.0029	347	1,612	1000/R
60227 IEC 02 1x185	185	5	21.0	2.0	20.6 - 24.9	0.0029	394	2,021	1000/R
60227 IEC 02 1x240	240	5	24.0	2.2	23.5 - 28.4	0.0028	471	2,694	500/R

***Class**

- 1 = Solid conductor
- 2 = Stranded conductor
- 5 = Flexible conductor

****Standard Packing**

- C = Packing in coil
- R = Packing in reel

PHELPS DODGE CABLE TYPE 60227 IEC 05 (IV)

300/500 V 70°C PVC/C INSULATED, SINGLE CORE



CONSTRUCTION

Conductor : Annealed solid copper
Conductor Sizes : 0.5 mm² up to 1 mm²
Insulation : Polyvinyl chloride type PVC/C
 (Any color as requested)

APPLICATION

Building wiring, for installation on insulator or in raceway.

CLASSIFICATION

Maximum conductor temperature 70°C
 Circuit voltage does not exceed 300/500 volts.

REFERENCE STANDARD

TIS 11 PART 3 - 2553 TABLE 5

CABLE TYPE	Nominal Sectional Area	Conductor Type	Diameter of Conductor (max)	Nominal Thickness of Insulation	Overall Diameter (min-max)	Minimum Insulation Resistance at 70°C	Current rating in free air	Cable Weight (approx)	Standard Packing**
	mm ²	Class*	mm	mm	mm	MΩ•km	A	kg / km	m
60227 IEC 05 1x0.5	0.5	1	0.9	0.6	1.9 - 2.3	0.015	3	9	100/C
60227 IEC 05 1x0.75	0.75	1	1.0	0.6	2.1 - 2.5	0.012	6	12	100/C
60227 IEC 05 1x1	1	1	1.2	0.6	2.2 - 2.7	0.011	10	15	100/C

*Class

- 1 = Solid conductor
- 2 = Stranded conductor
- 5 = Flexible conductor

**Standard Packing

- C = Packing in coil
- R = Packing in reel

PHELPS DODGE CABLE TYPE 60227 IEC 06 (VSF)

300/500 V 70°C PVC/C INSULATED, SINGLE CORE

CONSTRUCTION

Conductor : Annealed flexible copper
Conductor Sizes : 0.5 mm² up to 1 mm²
Insulation : Polyvinyl chloride type PVC/C
 (Any color as requested)

APPLICATION

Building wiring, for installation on insulator or in raceway and widely used in electrical home appliance.

CLASSIFICATION

Maximum conductor temperature 70°C
 Circuit voltage does not exceed 300/500 volts.

REFERENCE STANDARD

TIS 11 PART 3 - 2553 TABLE 7



CABLE TYPE	Nominal Sectional Area	Conductor Type	Diameter of Conductor (max)	Nominal Thickness of Insulation	Overall Diameter (min-max)	Minimum Insulation Resistance at 70°C	Current rating in free air	Cable Weight (approx)	Standard Packing**
	mm ²	Class*	mm	mm	mm	MΩ·km	A	kg / km	m
60227 IEC 06 1x0.5	0.5	5	1.1	0.6	2.1 - 2.5	0.013	3	10	100/C
60227 IEC 06 1x0.75	0.75	5	1.3	0.6	2.2 - 2.7	0.011	6	13	100/C
60227 IEC 06 1x1	1	5	1.5	0.6	2.4 - 2.8	0.010	10	16	100/C

*Class

- 1 = Solid conductor
- 2 = Stranded conductor
- 5 = Flexible conductor

**Standard Packing

- C = Packing in coil
- R = Packing in reel

PHELPS DODGE CABLE TYPE 60227 IEC 07 (HIV)

300/500 V 90°C PVC/E INSULATED HEAT RESISTANT, SINGLE CORE



CONSTRUCTION

Conductor : Annealed solid copper
Conductor Sizes : 0.5 mm² up to 2.5 mm²
Insulation : Heat resistant polyvinyl chloride type PVC/E (Any color as requested)

APPLICATION

Building wiring, for installation on insulator or in raceway.

CLASSIFICATION

Maximum conductor temperature 90°C
 Circuit voltage does not exceed 300/500 volts.

REFERENCE STANDARD : TIS 11 PART 3 - 2553 TABLE 9

CABLE TYPE	Nominal Sectional Area	Conductor Type	Diameter of Conductor (max)	Nominal Thickness of Insulation	Overall Diameter (min-max)	Minimum Insulation Resistance at 90°C	Current rating in free air	Cable Weight (approx)	Standard Packing**
	mm ²	Class*	mm	mm	mm	MΩ•km	A	kg / km	m
60227 IEC 07 1x0.5	0.5	1	0.9	0.6	1.9 - 2.3	0.015	3	9	100/C
60227 IEC 07 1x0.75	0.75	1	1.0	0.6	2.1 - 2.5	0.013	6	11	100/C
60227 IEC 07 1x1	1	1	1.2	0.6	2.2 - 2.7	0.012	10	14	100/C
60227 IEC 07 1x1.5	1.5	1	1.5	0.7	2.6 - 3.2	0.011	16	20	100/C
60227 IEC 07 1x2.5	2.5	1	1.9	0.8	3.2 - 3.9	0.009	25	31	100/C

*Class

- 1 = Solid conductor
- 2 = Stranded conductor
- 5 = Flexible conductor

**Standard Packing

- C = Packing in coil
- R = Packing in reel

PHELPS DODGE CABLE TYPE 60227 IEC 08 (HVSF)

300/500 V 90°C PVC/E INSULATED HEAT RESISTANT, SINGLE CORE

CONSTRUCTION

Conductor : Annealed Flexible Copper
Conductor Sizes : 0.5 mm² up to 2.5 mm²
Insulation : Heat resistant polyvinyl chloride type PVC/E (Any color as requested)

APPLICATION

Building wiring, for installation on insulator or in raceway and widely used in electrical home appliance.

CLASSIFICATION

Maximum conductor temperature 90°C
 Circuit voltage does not exceed 300/500 volts.

REFERENCE STANDARD : TIS 11 PART 3 - 2553 TABLE 11



CABLE TYPE	Nominal Sectional Area	Conductor Type	Diameter of Conductor (max)	Nominal Thickness of Insulation	Overall Diameter (min-max)	Minimum Insulation Resistance at 90°C	Current rating in free air	Cable Weight (approx)	Standard Packing**
	mm ²	Class*	mm	mm	mm	MΩ•km	A	kg / km	m
60227 IEC 08 1x0.5	0.5	5	1.1	0.6	2.1 - 2.5	0.013	3	9	100/C
60227 IEC 08 1x0.75	0.75	5	1.3	0.6	2.2 - 2.7	0.012	6	12	100/C
60227 IEC 08 1x1	1	5	1.5	0.6	2.4 - 2.8	0.010	10	15	100/C
60227 IEC 08 1x1.5	1.5	5	1.8	0.7	2.8 - 3.4	0.009	16	22	100/C
60227 IEC 08 1x2.5	2.5	5	2.4	0.8	3.4 - 4.1	0.009	25	34	100/C

*Class

- 1 = Solid conductor
- 2 = Stranded conductor
- 5 = Flexible conductor

**Standard Packing

- C = Packing in coil
- R = Packing in reel