






1. Building wires

BUILDING WIRES AND INTERIOR WIRES & CABLES	HELPS DODGE TYPE LETTER CODE NAME	REFERENCE STANDARD Or OTHER	CABLE NAME	APPLICATION
	CSC	TIS 64-2517	Bare copper stranded conductor (Hard Drawn)	Aerial power transmission and distribution line
	CSC	TIS 11-2531	Bare copper stranded conductor (Soft Drawn)	Aerial power transmission and distribution line
	PD-IV	TIS 11-2531 table 1	300V copper cdr.,PVC insulated cable	residential wiring
	PD-VAF	TIS 11-2531 table 2	300V copper cdr.,PVC ins., jacketed cable (flat type)	residential surface wiring
	PD-VVR	TIS 11-2531 table 3	300V multicore copper cdr.,PVC ins.,PVC jacketed cable	residential surface wiring
	PD-THW	TIS 11-2531 table 4	750V copper cdr.,PVC ins.	fixed wiring for large building and industry
	PD-VV	TIS 11-2531 table 5	750V copper cdr.,PVC ins.,PVC jacketed cable	fixed installation
	PD-VVF	TIS-2531 table 5	750V copper cdr.,PVC ins.,PVC jacketed cable (flat type)	fixed installation
	PD-NYY	TIS 11-2531 table 6	750V copper cdr.,PVC ins.,PVC jacketed cable	fixed installation
	PD-NYY	TIS 11-2531 table 7	750V multicore copper cdr.,PVC ins.,PVC inner jacket, PVC outer jacketed cable	feeder, branch circuit cable
	PD-NYY-N	TIS 11-2531 table 8	750V multicore copper cdr.,PVC ins.,PVC inner jacket, PVC outer jacketed cable with neutral	feeder, branch circuit cable (for 3 phase, 4 wire system)
	PD-VCT	TIS 11-2531 table 9	750V multicore copper cdr.,PVC ins.,PVC inner jacket, PVC outer jacketed cable (flexible conductor)	mobile-electrical equipment or machine tool wiring
	PD-VTF	TIS 11-2531 table 10	300V copper cdr.,PVC ins. (twist type, flexible cdr.)	small indoor electrical appliance
	PD-VFF	TIS 11-2531 table 10	300V copper cdr.,PVC ins. (falt twin, flexible cdr.)	small indoor electrical appliance

BUILDING WIRES AND INTERIOR WIRES & CABLES	PHELPS DODGE TYPE LETTER CODE NAME	REFERENCE STANDARD Or OTHER	CABLE NAME	APPLICATION
	PD-VSF	TIS 11-2531 table 10	300V copper cdr.,PVC insulated single core (flexible cdr.)	small electrical appliance
	PD-VAF-G	TIS 11-2531 table 11	300V copper cdr.,PVC jacketed cable with ground (flat type)	residential surface wiring
	PD-VVR-G	TIS 11-2531 table 12	300V copper cdr.,PVC ins. PVC jacketed cable with ground	fixed installation with ground system
	PD-VVF-G	TIS 11-2531 table 13	750V copper cdr.,PVC insulated, PVC jacket with ground (flat type)	surface wiring on wall ceiling or floor
	PD-NYY-G	TIS 11-2531 table 14	750V copper cdr.,PVC ins., PVC jacketed cable with ground	fixed installation with ground system
	PD-VCT-G	TIS 11-2531 table 15	750V copper cdr.,PVC insulated. PVC inner and outer jacket with ground (flexible conductor)	mobile-electrical equipment or machine tool wiring
	PD-VFF-G	TIS 11-2531 table 16	300V copper cdr.,PVC ins. with ground (flat type, flexible cdr.)	small indoor electrical appliance with ground system
	PD-VAFF	TIS 11-2531 table 17	300V copper cdr., PVC ins. PVC jacketed cable (flat type, flexible cdr.)	For surface or above ceiling wiring or direct embedded in plaster.
	XHHW-2	UL 44	600 Aluminum Alloy cdr., UL recognized cross-linked polyethylene ins.	general purpose building wire for installation in air, duct, conduit or other raceways
	XHHW,XHHW-2	UL 44	600 V copper cdr., UL recognized cross-linked polyethylene ins.	general purpose building wire for installation in air, duct, conduit or other raceways
	THHN-THWN	UL 83 UL 758 UL 1063	600 V Gasoline and oil resistant	general purpose building wire for services, feeders and branch circuits conduit and raceways
	IN	TOT	interior cable	interior telephone cable
	IN-A	TOT	Polypropylene insulated interior cable and PVC sheathed communication cable with aluminium foil	For connecting subscriber equipments inside the building where there is interfering noise caused by other electrical equipments
	ST	TOT	station wire	telephone subscriber wire

2. Telecommunication cables

TELEPHONE CABLE	PHELPS DODGE TYPE LETTER CODE NAME	STANDARD Or OTHER	CABLE NAME	APPLICATION
	AP	TOT	alpeth sheathed cable	aerial telephone cable
	AP(8)	TOT	Fig.8 alpeth sheathed cable	aerial telephone cable with self supporting messenger
	PAP	TOT	double sheathed alpeth cable	direct burial telephone cable
	AP-SWA	TOT	alpeth sheathed cable with steel wire armour	direct burial telephone cable
	FSF	TOT	foam/skin insulation alpeth sheathed, filled cable	underground and aerial application
	FSF-ASP	TOT	foam/skin insulation alpeth sheathed, filled cable, with steel tape armour	direct burial, underground and aerial application
	FSF-S	TOT	foam/skin insulation alpeth sheathed, filled cable, with s-screen	underground and aerial application (PCM system)
	TM	TOT	terminating cable	terminating telephone cable in exchange junction
	SS-DP	TOT	self-supported drop wire	aerial terminating cable to building
	JD	TOT	jumper wire	cross-connecting wire in exchange junction
	GDW	TOT	ground wire	ground wire at subscriber

3. High voltage cables

MEDIUM-EXTRA HIGH VOLTAGE POWER CABLE	PHELPS DODGE TYPE LETTER CODE NAME	REFERENCE STANDARD Or OTHER	CABLE NAME	APPLICATION
	SAC	ICEA S-66-524,PEA,MEA	Spaced aerial cable	Aerial distribution cable (installed with spacer)
	PIC	ICEA S-66-524,PEA,MEA	Partial insulated cable	Aerial distribution cable (installed with pin insulator)
	HXLP	ICEA S-66-524	High voltage cross-linked polyethylene cable	Main circuit feeder for use in aerial, conduit and underground duct installation.
	MV90	UL 1072	High voltage cross-linked polyethylene cable	Main circuit feeder for use in aerial, conduit and underground duct installation.
	HXLP	IEC 60502-2	High voltage cross-linked polyethylene cable	Main circuit feeder for use in aerial, conduit and underground duct installation.
	HXLP-DATA	IEC 60502-2	High voltage cross-linked polyethylene cable	Main circuit feeder for use in aerial, conduit and underground duct installation.
	HXLP-AWA	IEC 60502-2	High voltage cross-linked polyethylene cable	Main circuit feeder for use in aerial, conduit and underground duct installation.
	HXLP	IEC 60502-2	High voltage cross-linked polyethylene cable	Main circuit feeder for use in aerial, conduit and underground duct installation.
	HXLP-DSTA	IEC 60502-2	High voltage cross-linked polyethylene cable	Main circuit feeder for use in aerial, conduit and underground duct installation.
	HXLP-SWA	IEC 60502-2	High voltage cross-linked polyethylene cable	Main circuit feeder for use in aerial, conduit and underground duct installation.
	HXLP-LS-SWA	IEC 60502-2	High voltage cross-linked polyethylene cable	Main circuit feeder for use in aerial, conduit and underground duct installation.
	E-HXLP	IEC 60840	High voltage cross-linked polyethylene cable	Main circuit feeder for use in aerial, conduit and underground duct installation.
	E-HXLP	IEC62067	High voltage cross-linked polyethylene cable	Main circuit feeder for use in aerial, conduit and underground duct installation.
	E-HXLP-LS	IEC 60840	High voltage cross-linked polyethylene cable	Main circuit feeder for use in aerial, conduit and underground duct installation.




4. Low voltage cables

LOW VOLTAGE POWER CABLE	PHELPS DODGE TYPE LETTER CODE NAME	REFERENCE STANDARD Or OTHER	CABLE NAME	APPLICATION
 PDTL	CV	JIS C 3605	Low voltage	For general purpose power distribution in wet or dry locations, installed in air
 PDTL	CV	IEC 502	Low voltage	For general purpose power distribution in wet or dry locations, installed in air
 PDTL	CV-AWA	IEC 502	Low voltage	cable
 PDTL	CV-SWA	IEC 502	Low voltage	For use in ducts, trays and direct burial in ground. The cable is subject to immerse
 PDTL	CVV	JIS C 3401	Low voltage	Supervisory electrical equipment, station control circuits.
 PDTL	CVV	IEC 502	Low voltage	Supervisory electrical equipment, station control circuits.
 PDTL	CVV	JIS C 3401	Low voltage	Supervisory electrical equipment, station control circuits.
 PDTL	CVVS(FLEXIBLE)	JIS C 3401	Low voltage	Supervisory electrical equipment, station control circuits. Out door, suitable.
 PDTL	CVVS(STRANDED)	JIS C 3401	Low voltage	Supervisory electrical equipment, station control circuits. Out door, suitable.
 PDTL	CVV-SWA	IEC 502	Low voltage	Supervisory electrical equipment, station control circuits. Out door, suitable.
 PDTL	NYCY	TIS 11-2531 and VDE 0271 Where applicable	Low voltage	Preferable for installation in the ground
 PDTL	SECTOR SHAPED POWER CABLE			

5. Aluminum cables


ALUMINIUM CABLES	PHELPS DODGE TYPE LETTER CODE NAME	REFERENCE STANDARD Or <u>OTHER</u>	CABLE NAME	APPLICATION
	AAC	TIS 85-2522	ALUMINIUM STRANDED CONDUCTOR	Aerial power transmission line.
	ACSR	TIS 86-2522	ALUMINIUM CONDUCTOR STEEL REINFORCED	Aerial power transmission line and distribution.
	WPC concentric	TIS 293-2541	WEATHER-PROOF OR WEATHER- RESISTANCE CABLE (CONCENTRIC)	For use above ground overhead distribution.
	WPC compact	TIS 293-2541	WEATHER-PROOF OR WEATHER- RESISTANCE CABLE (COMPACT)	For use above ground overhead distribution.

6. Rod

ROD	PHELPS DODGE TYPE LETTER CODE NAME	REFERENCE STANDARD Or <u>OTHER</u>	CABLE NAME	APPLICATION
	Redrawn Aluminum rod, EC grade	ASTM B 233	RE-DRAW COPPER ROD	For re-draw to wire for electrical conductors.
	Redrawn Copper Rod, ETP grade	ASTM B49 or ASTM B1	RE-DRAW COPPER ROD	For high speed re-draw to wire for electrical conductors.
	Direct-to-cast 8 mm Oxygen Free Copper Rod	ASTM B49 or ASTM B1	DIRECT-TO-CAST 8MM OXYGEN FREE COPPER ROD	For high speed re-draw to wire for electrical conductors.


7. Lead sheathed cables

XLPE Insulated Lead Sheathed Cable	PHELPS DODGE TYPE LETTER CODE NAME	REFERENCE STANDARD Or OTHER	CABLE NAME	APPLICATION
	 <p>XLPE INSULATED LEAD SHEATHED CABLES SINGLE CONDUCTOR</p>	IEC	LOW VOLTAGE AND CONTROL CABLE	for direct burial power cable application for the utility and petrochemical industries have proven the benefits of lead alloy by extending the service life of these cables. The lead sheath along with copper tapes and or copper wire will also act ad fault current for equipment and/or system safety.
 <p>XLPE INSULATED LEAD SHEATHED CABLES MULTI CONDUCTOR</p>	IEC	LOW VOLTAGE AND CONTROL CABLE	for direct burial power cable application for the utility and petrochemical industries have proven the benefits of lead alloy by extending the service life of these cables. The lead sheath along with copper tapes and or copper wire will also act ad fault current for equipment and/or system safety.	
 <p>XLPE INSULATED LEAD SHEATHED CABLES SINGLE CONDUCTOR</p>	IEC	MEDIUM VOLTAGE CABLES	for direct burial power cable application for the utility and petrochemical industries have proven the benefits of lead alloy by extending the service life of these cables. The lead sheath along with copper tapes and or copper wire will also act ad fault current for equipment and/or system safety.	
 <p>XLPE INSULATED LEAD SHEATHED CABLES MULTI CONDUCTOR</p>	IEC	MEDIUM VOLTAGE CABLES	for direct burial power cable application for the utility and petrochemical industries have proven the benefits of lead alloy by extending the service life of these cables. The lead sheath along with copper tapes and or copper wire will also act ad fault current for equipment and/or system safety.	

	<p>XLPE INSULATED LEAD SHEATHED CABLES SINGLE CONDUCTOR</p>	<p>AEIC, IEC, ICEA</p>	<p>HIGH VOLTAGE CABLES</p>	<p>for direct burial power cable application for the utility and petrochemical industries have proven the benefits of lead alloy by extending the service life of these cables. The lead sheath along with copper tapes and or copper wire will also act ad fault current for equipment and/or system safety.</p>
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8. Special cables

SPECIAL CABLES	PHELPS DODGE TYPE LETTER CODE NAME	REFERENCE STANDARD Or OTHER	CABLE NAME	APPLICATION
	<p>PHELPS DODGE UTP CAT5</p>	<p>IEC 332-3, CM (UL 1581 method 1160) and CMR(UL 1666)</p>	<p>UTP CAT5</p>	<p>Suitable for linking associated connecting hardware used in local area network whose transmission characteristics are specified up to 100 MHz</p>