Cordset Technical Information



Prysmian takes pride in offering high-quality cordsets to our customers that provide reliable service year after year in the most rugged uses and application conditions. From our innovative **Plug-it**[®] line of cordset products and extension cord accessories to the ultimate extension cord in the industry – **FrogHide**[®] – we sell the products that power you forward.

Handy information and technical data in this section will help in the correct selection and matching of our cordset products to your application. For difficult applications or more detailed technical questions, please contact your local Prysmian distributor, your retailer, or your Inside Sales Representative.





Extension Cord Facts

What does AWG mean?

AWG means American Wire Gauge. It designates the size of the copper wire. The standard sizes for extension cords are 16 AWG, 14 AWG, 12 AWG and 10 AWG. The smaller the AWG number, the larger the size of the copper wire and wattage rating.

What do the amp and watt ratings mean?

Never plug more than the specific number of watts into a cord. For example, could you plug a 150-watt lamp, a 60-watt lamp and a 10-amp appliance into an extension cord rated 13 amps/1625 watts? Use the Amp to Watt Conversion Table to determine the total number of watts to be used (150 watts + 60 watts + 1250 watts = 1460 watts). Therefore, it is safe to use the 13-amp/1625-watt extension cord.

Always look for the Underwriters Laboratory label which is permanently attached or molded into the



Amps To Watts (@ 125 V) Conversion Table						
0	=	0				
1	=	125				
2	=	250				
3	=	375				
4	=	500				
5	=	625				
6	=	750				
7	=	875				
8	=	1000				
9	=	1125				
10	=	1250				
11	=	1375				
12	=	1500				
13	=	1625				
14	=	1750				
15	=	1875				



How to use an extension cord properly.

- Be sure the cord you have selected meets the intended use. Never use a cord outdoors that is not marked for outdoors.
- Inspect cord thoroughly before each use. Do not use if damaged.



Do not remove, bend or modify any metal prongs or pins of plug.

- Look for the number of watts on appliances to be plugged into cord.
- Refer to UL Label on cord for specific wattage.
- Do not connect a three-prong plug into a two-hole cord.
- · Do not plug more than the specified number of watts into a cord.
- Make sure appliance is off before connecting cord to outlet.

 A polarized plug has one blade wider than the other.

- Fully insert plug into outlet.
- Do not use excessive force to make connections.
- Do not run cords through doorways, holes in ceilings, walls or floors.
- Do not use an extension cord when wet.



- Keep extension cords away from water.
- Keep children and pets away from extension cords.



Avoid overheating. Uncoil cord and do not cover it with any other material.

- Do not plug one extension cord into another.
- · Do not drive, drag or place objects over extension cord.
- Always grasp plug when removing it from cord or outlet.
- Do not unplug by pulling on cord.



 Always store extension cords indoors.



 Do not walk on cord.

- Always unplug cord when not in use.
- Always look for the Underwriters Laboratory (UL) label which is permanently attached or molded into the cord. Read the label for instructions and electrical ratings.



Cordset Product Coding System

Cordset Packaging and Color Codes Example:

Product Number -



Packaging Code Identification Numbers

CODE	PACKAGING	CODE	PACKAGING
13	Clamshell	70	Bulk (with tie)
60	Cuff	73	Bulk (without tie)
61	Box	96	Card
63	Sleeve		

Jacket Color Code Identification Numbers

CODE	COLOR	CODE	COLOR	
00	No color	06	Green	
01	Black	07	Blue	
02	White	08	Brown	
03	Red	10	Gray	
04	Orange	17	Beige	
05	Yellow			

Surface Printed Legend

Our extension cords have surface-printed jackets to provide a means of identifying and distinguishing between different types of extension cords.



Inner Wire Color Code Chart

NO. OF CONDUCTORS	COLOR
2	Black, White
3	Black, White, Green
4	Black, White, Green, Red





Cord & Cordset

Understanding Wire Gauge

- Gauge refers to the size of the wire
- The thinner the wire, the higher the gauge number
- The thicker the wire, the lower the gauge number



- The lower the gauge, the more electrical current (amps) the wire can carry
- The lower the gauge, the longer distance the wire can be run from an electrical source

How to Select the Right Extension Cord

1. Look up the amp rating on the power tool or appliance.

Extension Cord Selector

EQUIPMENT	AMP RATING
Circular Saw	12-15
Power Drill	3-7
Hedge Trimmer	2-3
Weed Trimmer	2-4
Chain Saw	7-12
Leaf Blower	6-12
Bug Killer	1-2
Lawn Mower	6-12

- 2. Determine the maximum distance the tool or appliance will be from
 - the electrical outlet.
- 3. Use the Extension Cord Selector chart below to identify the proper gauge.

Extension Cord Selector

MAXIMUM DISTANCES	UP TO 10 AMPS	UP TO 15 AMPS
0' to 25'	16 Gauge	14 Gauge
25' to 50'	16 Gauge	14 Gauge
50' to 75'	16 Gauge	12 Gauge
75' to 100'	16 Gauge	12 Gauge

Extension Cord Performance Guide

	FROGHIDE [®] ULTRA FLEX [®] RUBBER	LIFETIME PLUS [®] SUPER FLEX [®]	ALL WEATHER BLUE	SAFETY ORANGE®
Low-Temp Flex	Excellent	Good	Good	Fair
Room-Temp Flex	Excellent	Very Good	Very Good	Good
Oil Resistance	Dil Resistance Excellent		Very Good	Fair
Cap/Cord Bonding	Excellent	Very Good	Very Good	Good
Abrasion Resistance Excellent		Very Good	Very Good	Very Good
Chemical Resistance	Excellent	Very Good	Very Good	Very Good
Heat Softening Excellent		Fair	Fair	Fair
Water Resistance	Excellent	Excellent	Excellent	Excellent
Flame Resistance	Excellent	Very Good	Very Good	Very Good





Ground Fault Circuit Interrupters (GFCI)

What is the GFCI?

The GFCI is a fast-acting circuit interrupter that senses small current imbalances.

These small imbalances in the circuit are caused by current leakage to ground and, in a fraction of a second, the GFCI shuts off the electricity. The GFCI continually matches the amount of current going to an electrical device against the amount of current returning from the device along the normal path. Whenever the amount "going" differs from the amount "returning" by approximately 5 milliamps, the GFCI interrupts the electrical power within as little as 1/40 of a second.

What are OSHA's Electrical Standards for Construction?

GFCIs can be used successfully to reduce electrical hazards on construction sites...

Tripping of GFCIs - interruption of current flow - is sometimes caused by wet connectors and tools. It is a good practice to limit exposure of connectors and tools to excessive moisture by using watertight or sealable connectors. Providing more GFCIs or shorter circuits can prevent tripping caused by the cumulative leakage from several tools or by leakages from extremely long circuits. To help cope with the electrical hazards at construction sites...

The Occupational Safety and Health Administration (OSHA) issued a revision of OSHA safety and health regulation, 29 Code of Federal Regulations Part 1926, Subpart K (Electrical Standards of Construction). This revision was published in the federal Register and contains the requirements for the GFCI and the assured equipment grounding conductor program.

What are the Employer's Responsibilities on a Construction Site?

OSHA ground-fault protection rules and regulations have been determined necessary and appropriate for employee safety and health.

Therefore, it is the employer's responsibility to provide either...

- Ground-fault circuit interrupters on construction sites for receptacle outlets in use and not a part of the permanent wiring of the building or structure.
- A scheduled and recorded assured equipment grounding conductor program on construction sites, covering all cordsets, receptacles that are not part of the permanent wiring of the building or structure, and equipment connected by cord and plug that are for use or used by employees.

It is also the employer's responsibility to provide approved ground fault circuit interrupters for a 120-volt, single-phase, 15- and 20-ampere receptacle outlets on construction sites that are not part of the permanent wiring of the building or structure, and that are in use by employees. Receptacles on the ends of extension cords are not part of the permanent wiring and, therefore must be protected by GFCIs whether or not the extension cord is plugged into permanent wiring.

Effective management of worker safety and health protection is a decisive factor in reducing the extent and severity of work-related injuries and illnesses and their related costs. An effective program includes provisions for the systematic identification, evaluation and prevention or control of general workplace hazards, specific job hazards and potential hazards that may arise from foreseeable conditions. An effective program will include management commitment and employee involvement, work site analysis, hazard prevention and control, training and the proper equipment.







NEMA Receptacle and Plug Chart

		LINE	15 AM	PERE	20 AM	IPERE
	VOLTAGE	NO.	RECEPTACLE	PLUG	RECEPTACLE	PLUG
2 Pole 2 Wire	125 V	1	1-15R	1-15P		
	250 V	2	2-15R	2-15P	2-20R	2-20P
2 Pole 3 Wire	125 V	5	5-15R	5-15P	5-20R	5-20P
Grounding	250 V	6	6-15R	6-15P	6-20R	6-20P
	277 V	7	7-15R	7-15P	7-20R	7-20P
3 Pole 3 Wire	125/250 V	10			10-20R	10-20P
	3 ∲ [∆] 250 V	n	11-15R	11-15P	11-20R	11-20P
3 Pole 4 Wire	125/250 V	14	14-15R	14-15P	14-20R	14-20P
Grounding	3 ∲ [∆] 250 V	15	15-15R	15-15P	15-20P	15-20P
4 Pole 4 Wire	3 φ Υ 120/208 V	18	18-15R	18-15P	18-20R	18-20P





NEMA Receptacle and Plug Chart

		LINE	30 AMPERE			50 AM	IPERE		60 AMPERE					
	VOLTAGE	NO.	RECEPT	TACLE	PL	UG	RECEF	TACLE	PL	.UG	RECER	PTACLE	PL	UG
2 Pole 2 Wire	125 V	1												
	250 V	2	2-30R (2-30P									
2 Pole 3 Wire	125 V	5	5-20R (5-30P		5-50R		5-50P					
Grounding	250 V	6	6-30R (6-30P		6-50R		6-50P					
	277 V	7	7-30R (7-30P		7-50R		7-50P					
3 Pole 3 Wire	125/250 V	10	10-30R		10-30P		10-50R		10-50P					
	3 φ ^Δ 250 V	11	11-30R	A Cr	11-30P		11-50R		11-50P					
3 Pole 4 Wire	125/250 V	14	14-30R		14-30P		14-50R		14-50P		14-60R		14-60P	
Grounding	3 ∲ [∆] 250 V	15	15-30R		15-30P		15-50R		15-50P		15-60R		15-60P	
4 Pole 4 Wire	3 ∳ Ƴ 120/208 V	18	(18-30R		18-30P		18-50R		18-50P		18-60R		18-60P	

LOCKING-TYPE PLUGS AND RECEPTACLES

	LINE	15 AM	PERE	20 AN	IPERE	30 AM	1PERE
VOLTAGE	NO.	RECEPTACLE	PLUG	RECEPTACLE	PLUG	RECEPTACLE	PLUG
125 V	L-1	L1-15R	L1-15P				
250 V	L-2			L2-20R	L2-20P		
125 V	L-5	L5-15R	L5-15P	L5-20R	L5-20P	L5-30R	L5-30P
250 V	L-6	L6-15R	L6-15P	L6-20R	L6-20P	L6-30R	L6-30P
277 V, A.C.	L-7	L7-15R	L7-15P	L7-20R	L7-20P	L7-30R	L7-30P
480 V	L-8			L8-20R	L8-20P	L8-30R	L8-30P
600 V	L-9			L9-20P	L9-20P	L9-30R	L9-30P

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