

# PRODUCT BULLETIN



## ROPE & FINISHED STRAND PRODUCT DESCRIPTIONS

January 2012

WireCo WorldGroup has adopted a rope description format to promote better communication within our product descriptions. The format provides more information regarding the product and brings the descriptions into a more internationally established and recognized format. We have adopted symbols and designations that are part of ISO, ASTM, and other industry standards and specifications. We have also developed codes that will tell you at a glance if a product was designed with special 'Additional Features'.

The basic format for the product descriptions is...

**Diameter, [trade name] and/or [construction, core, grade], wire finish, lay, (additional features), (spec), (domestic indicator)**

The segments shown in parenthesis at the end of the format will appear only as required. Various product description examples are given in Figure 1. Diameter dimensions will use double prime (") for inches and MM for millimeter.

	3/8"	6XK26WS-IWRC	XIP	U	SZ (RR)			
	19MM	TURBOPLAST	1960	U	ZZ (RL)			
	3/4"	6X25F-SFC	DGXIP	B	SZ (RR)			
	24MM	6X36WS-IWRC	XIP	U	ZS (LR)			
	19MM	NR MAXIPACT	1960	U	SZ (RR)	PPI		
	1"	6X26WS-IWRC	FLEX-X	U	SZ (RR)			
	1-1/4"	6X26WS-IWRC	XIP	U	SS (LL)	PFV		
	2"	6X26WS-EPIWRC	XIP	U	SZ (RR)	RTY		
	26MM	POWERPLAST	1960	B	SZ (RR)			
	2-3/4"	TUF-MAX		U	ZZ (RL)			
	3-5/8"	1X148			CL-C/A	S (L)	A586	US

  

Diameter	_____
Rope Construction or Trade Name	_____
Core Type (where applicable)	_____
Rope Grade (where applicable)	_____
Wire Finish	_____
Lay Type and Direction	_____
(Additional Features)	_____
(Specification)	_____
(Domestic Indicator)	_____

Figure 1-Description Examples

### Rope Construction, Core Type, Strength Grade, and Wire Finish

Industry standard rope constructions are used (6X19S, 6X25F, 6X26WS, etc). If the letter 'K' is included within the description, it indicates compaction. A 'K' leading a rope construction (K6X26WS) indicates that the entire rope was compacted after closing (swaged rope). A 'K' leading a strand construction (6XK26WS) indicates that the individual strand components were compacted prior to the rope closing process. WireCo's trade name of FLEX-X also indicates strand compaction and designates a special rope grade. [1" 6X26WS-IWRC FLEX-X U SZ (RR)]

For specialty ropes, a trade name typically represents the product as a whole. Therefore, the construction, core type, and grade are all represented by the name. [2-3/4" TUF-MAX U ZZ (RL)]

The core type designation follows the rope construction. Table 1 lists the core types and their descriptions. Our standard fiber core rope is indicated by an SFC (formerly FC).

The rope grade designations correspond to regional and international standards. Regional designations such as DG, indicating drawn galvanized, continue to be used in conjunction with the rope grade (example – DGXIP or DGEIP). Table 2 lists the most commonly used rope grades. However the list is not intended to be all inclusive.

In cases where specialty ropes do not belong to a particular strength grade, the trade name represents the grade. For example, FLEX-X and swaged products do not fit within any particular grade.

Code	Description
NFC	Natural fiber core
SFC	Synthetic fiber core
SPC	Solid poly core
WSC	Wire strand core
IWRC	Independent wire rope core
IWRC(K)	IWRC w/compacted strands
EPIWRC	Plastic extruded IWRC

**Table 1 - Core Descriptions**

Common USA	Union
IPS	IPS
EIP	XIP
EEIP	XXIP
EEEIP	XXXIP
GEIP	GXIP
DGEIP	DGXIP
DGEEIP	DGXXIP

**Table 2 - Rope Strength Grades**

The codes shown in Table 3 represent the finish of the wires used in the production of the wire rope.

Finish Designator	Wire Finish
U	Uncoated Wire (Bright)
A	Coated-to-Finished Size Galvanized Wire
B	Drawn Galvanized

**Table 3 - Wire Finishes**

GAC and finished strand products retain their wire finish and strength designations (Table 4).

3/8" 7X19 GAC MIL83420	Galvanized Aircraft Wire
2-5/8" 1x154 CL-C/A S (L) A586	Class C Outer Wires w/Class A Inners
2-5/8" 1x154 CL-A S (L) A586	Class A Throughout

**Table 4 - GAC and Finished Strand Examples**

### Lay

The designators for lay direction are shown in Table 5 and are in accordance with ISO 17893. The traditional use of R and L will continue to be included after the international designations as shown in the table.

Lay	New Nomenclature	Former Nomenclature
Right Regular	SZ	(RR)
Right Lang	ZZ	(RL)
Left Regular	ZS	(LR)
Left Lang	SS	(LL)
Right Alternate	AZ	(RA1)
Left Alternate	AS	(LA1)

**Table 5 - Lay Directions**

### Additional Features

Listed in table 6 are some of the codes used to indicate that a rope has special additional features. When more than one feature is applicable, the codes appear in the description in the order in which they were processed (PRS PFV example – Table 6).

Code	Details
DPRS	Dynamically prestretched
L###	Lube code indication other than standard lubrication
PFV	Plastic extruded product
PRS	Statically prestretched
PRS PFV	Statically prestretched and then plastic extruded
RTY	Rotary drill line
SR	Stress relieved
SW	Swaged
TBG	Tubing line
TU	Tumbled

**Table 6 - Additional Features**

### Specifications and Domestic Indicator

When a product is produced to meet a special specification, that specification's designation is included within the description (e.g. MIL, ASTM, DMS). A description ending with US indicates that it is a domestically produced, melted and manufactured product.