

• **COPPER WIRE**

APPROXIMATIVE EQUIVALENCE					
EN DESIGNATION			DIN		ASTM DESIG.
Symbolic	Numeric	Standard	Designation	Standard	
Cu-ETP	CW004A	EN 13601	E-Cu58	DIN 17577	C11000

• **BRASS WIRE**

APPROXIMATIVE EQUIVALENCE					
EN DESIGNATION			DIN		ASTM DESIG.
Symbolic	Numeric	Standard	Designation	Standard	
CuZn15	CW502L	EN 12166	CuZn15	DIN 17660	C23000
CuZn30	CW505L	EN 12166	CuZn30	DIN 17660	C26000
CuZn37	CW508L	EN 12166	CuZn37	DIN 17660	C24000
CuZn39Pb3	CW614N	EN 12166	CuZn39Pb3	DIN 17660	-




• **BRONZE WIRE**

APPROXIMATIVE EQUIVALENCE					
EN DESIGNATION			DIN		ASTM DESIG.
Symbolic	Numeric	Standard	Designation	Standard	
CuSn6	CW452K	EN 12166	CuSn6	DIN 17682	C51900
CuSn8	CW453K	EN 12166	CuSn8	DIN 17682	C52100

• **NICKEL SILVER WIRE**

APPROXIMATIVE EQUIVALENCE					
EN DESIGNATION			DIN		ASTM DESIG.
Symbolic	Numeric	Standard	Designation	Standard	
CuNi12Zn24	CW4033	EN 12166	CuNi12Zn24	DIN 17660	C75700
CuNi18Zn20	CW4093	EN 12166	CuNi18Zn20	DIN 17660	C75200

• **POSSIBILITIES OF SUPPLY (SECTION)**

	Round	0.10 - 22 mm
	Square	0.5 x 0.5 - 10 x 10 mm
	Rectangular	as per customer's requirements
	Special / Profile	as per customer's requirements

• **SERVICES**

WIRE STRAIGHTENING AND CUTTING

SUPPLY OF WIRE IN ANNEALED CONDITION

• **RECUBRIMIENTOS EN FUNCIÓN DEL TIPO DE ALAMBRE**

- Tin coating
- Copper coating
- PET
- Galvanized
- Electrolytic zinc coating
- Zinc-aluminium coating
- Brass coating
- Nickel coating
- Phosphated coating



VINCO

VIZCAINA DE INDUSTRIA Y COMERCIO

Vizcaína de Industria y Comercio, S.A.

Polígono Sarrikola | Telf.- +34 94 412 33 99
 c/ Bizkargi, 6 | Fax - +34 94 486 83 01
 E-48195 Larrabetzu - Bizkaia | e-mail: info@vinco.es

Polígono Sesroviros | Telf.- +34 93 771 36 66
 c/ Marconi, 13 | Fax - +34 93 771 31 15
 E-08635 Sant Esteve Sesroviros - Barcelona | e-mail: infobarcelona@vinco.es

SPAIN | www.vinco.es



WIRE DIVISION

The data herein is merely for information purposes and do not imply contractual terms of supply. Unless there is an error or omission.



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Further wire grades, coatings and range of diameters are available through the Sales Department.

• STEEL WIRE

HIGH-CARBON STEEL

APPROXIMATE EQUIVALENCE				
EN		DIN DESIG.	ASTM DESIG.	
Designation	Standard			
Non-alloyed and Cold-drawn Steel for Mechanical Springs				
SL	EN 10270-1	CLASSE A		
SM	EN 10270-1	CLASSE B		A 227
SH	EN 10270-1	CLASSE C		
DM	EN 10270-1	-		
DH	EN 10270-1	CLASSE D		A 228
-	-	CLASS # (DIN 1723:1964-1)		
Steel for Oil-hardened and Drawn Springs				
FDC	EN 10270-2	FD		A 229-1
TDC	EN 10270-2	-		A 229-2
VDC	EN 10270-2	VD		A 230
FDSiCr	EN 10270-2	FDSiCr		-
TDSiCr	EN 10270-2	-		A 401
VDSiCr	EN 10270-2	VDSiCr		A 877
Annealed Steel wire Rods for Springs				
51CrV4	-	51CrV4		6145.6150

LOW-CARBON STEEL

APPROXIMATE EQUIVALENCE				
EN		DIN		AISI/SAE DESIG.
Designation	Standard	Designation	Standard	
C 7 D	EN 10016-2	D8-2	DIN 17140	1008
C 15E 2E	EN 10263-3	Cq 15	DIN 1654	1015
2282	EN 10263-4	22 B 2	DIN 1654	-
35B2	EN 10269	35 B 2	DIN 1654	-
11 SMn 30	EN 10087	9SMn28	DIN 1651	1213

• STAINLESS STEEL WIRE

APPROXIMATE EQUIVALENCE				
EN		AISI		
Designation (includes DIN standard)	Standard			
Ferritic Stainless Steel				
X6Cr17	1.4016	EN 10088-3	430	
Martensitic Stainless Steel				
X20Cr13	1.4021	EN 10088-3	420	
Austenitic Stainless Steel				
X2CrNi18-9	1.4307	EN 10088-3	304 L	
X3CrNiCu18-9-4	1.4567	EN 10088-3	304 Cu	
X5CrNi18-10	1.4301	EN 10088-3	304	
X5CrNiMo17-12-2	1.4401	EN 10270-3(*)	316	
X6CrNiMoTi17-12-2	1.4571	EN 10088-3	316 Ti	
X7CrNiAl17-7	1.4568	EN 10270-3(*)	631	
X8CrNiS18-9	1.4305	EN 10088-3	303	
X10CrNi18-8(NS)	1.4310	EN 10270-3(*)	302	
X10CrNi18-8(HS)	1.4310	EN 10270-3(*)	302 HLS	
X8CrMnCuNb17-8-3	1.4597	EN 10088-3	204 Cu	
Stainless Steel for Welding				
X2CrNi19-9	1.4316	DIN 17145	308 L-Si	
X2CrNiMo19-12	1.4430	DIN 17145	316 L-Si	
Heat-resistant Stainless Steel				
X15CrNiSi25-21	1.4841	EN 10095	314	

(*): Grades as per EN 10270-3 are also to be found in the EN 10088-3 standard. These qualities are specifically for springs.

• ALUMINIUM WIRE

APPROXIMATE EQUIVALENCE					
DESIG. EN			DIN		ASTM DESIG.
Numeric	Symbolic	Standard	Designation	Standard	
EN AW-1050 A	EN AW-AI99.5	EN 573	Al 99.5	DIN 1745	1050A
EN AW-2011	EN AW-AICu6BiPb	EN 573	Al Cu Bi Pb	DIN 1745	2011
EN AW-5052	EN AW-AIMg2.5	EN 573	Al Mg 2.5	DIN 1745	2052
EN AW-5754	EN AW-AIMg3	EN 573	Al Mg 3	DIN 1745	5754

• CONDITIONING FOR THE DIFFERENT TYPES OF WIRE

TYPE OF CONDITIONING	QUALITY							51CrV4	308 L-Si 316 L-Si	□ □	Maximum weights kg
	SL-SM	FDC	302	303-304	D8-2	CuZn					
	SH	TDC	316	304L	Cq15	Cu-ETP					
	DM	VDC/VDSiCr	316 Ti	304 Cu	22B2	CuSn					
	DH	FDSiCr	304-631	430-420	35B2	Al					
II	TDSiCr	302HLS	204 Cu-314	9SMn28	CuNiZn						
COIL	✓	✓	✓	✓	✓	✓	✓				500
Z SPOOL	✓	✓	✓			✓					800
SPOOLED COIL	✓			✓	✓				✓		2000
ORBIT				✓	✓	✓					1200
BREMER COIL									✓		400
DIN 160 PLASTIC SPOOL					✓	✓					7
DIN 200 PLASTIC SPOOL	✓		✓								10
DIN 300 PLASTIC SPOOL			✓			✓					17
DIN 355 PLASTIC SPOOL	✓				✓						45
SH 390 PLASTIC SPOOL SH 460			✓		✓				✓		45
G240/40 METAL REEL G360/40	✓		✓		✓			✓			400
WOODEN SPOOL			✓		✓				✓		400
SPIDER / CARRIER	✓	✓		✓	✓	✓					2.000
CARDBOARD DRUM					✓	✓			✓		400
CUT-TO-LENGTH BARS	✓	✓	✓	✓	✓		✓	✓			



• AXIAL DISPLACEMENT (HELIX/ PITCH)

CONTROL OF RESIDUAL TORSION

For a turned wap (cast) the condition of non-existence of residual tension in wires with a diameter of less than 5.00mm is respected if:

$$f_{\text{real}} < \frac{0.2 \cdot D}{\sqrt[4]{d}}$$

