

Product range & specifications

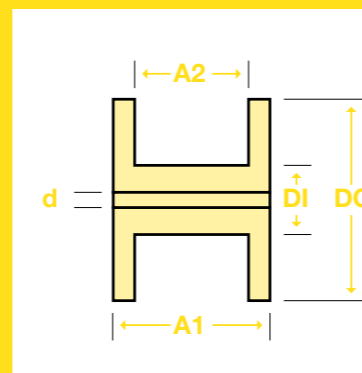
Diameter	Product Code	Tensile St (N/mm ²)	Grade	Spool (JIS/DIN)	Net Wt (kg)	Length (km)	Ctn Pack	Wt/Ctn
0.200mm	EDM950-20P3	900-1035	Hard	P3R	3.0kg	11.5km	6spls/ctn	18.0kg
	EDM950-20P5	900-1035	Hard	P5R	5.0kg	19.1km	4spls/ctn	20.0kg
	EDM950-20P10	900-1035	Hard	P10	10.0kg	38.2km	2spls/ctn	20.0kg
	EDM950-20P15	900-1035	Hard	P15	20.0kg	76.4km	1spl/ctn	20.0kg
	EDM950-20K125	900-1035	Hard	K125	3.5kg	13.4km	4spls/ctn	14.0kg
	EDM950-20K160	900-1035	Hard	K160	8.0kg	30.6km	2spls/ctn	16.0kg
	EDM950-20K200	900-1035	Hard	K200	16.0kg	61.2km	1spl/ctn	16.0kg
0.200mm	EDM450-20P3	450-550	Soft	P3R	3.0kg	11.5km	6spls/ctn	18.0kg
	EDM450-20P5	450-550	Soft	P5R	5.0kg	19.1km	4spls/ctn	20.0kg
	EDM450-20P10	450-550	Soft	P10	10.0kg	38.2km	2spls/ctn	20.0kg
	EDM450-20P15	450-550	Soft	P15	20.0kg	76.4km	1spl/ctn	20.0kg
	EDM450-20K125	450-550	Soft	K125	3.5kg	13.4km	4spls/ctn	14.0kg
	EDM450-20K160	450-550	Soft	K160	8.0kg	30.6km	2spls/ctn	16.0kg
	EDM450-20K200	450-550	Soft	K200	16.0kg	61.2km	1spl/ctn	16.0kg
0.250mm	EDM950-25P3	900-1035	Hard	P3R	3.0kg	7.3km	6spls/ctn	18.0kg
	EDM950-25P5	900-1035	Hard	P5R	5.0kg	12.2km	4spls/ctn	20.0kg
	EDM950-25P10	900-1035	Hard	P10	10.0kg	24.4km	2spls/ctn	20.0kg
	EDM950-25P15	900-1035	Hard	P15	20.0kg	48.8km	1spl/ctn	20.0kg
	EDM950-25K125	900-1035	Hard	K125	3.5kg	8.5km	4spls/ctn	14.0kg
	EDM950-25K160	900-1035	Hard	K160	8.0kg	19.6km	2spls/ctn	16.0kg
	EDM950-25K200	900-1035	Hard	K200	16.0kg	39.2km	1spl/ctn	16.0kg
0.250mm	EDM450-25P3	450-550	Soft	P3R	3.0kg	7.3km	6spls/ctn	18.0kg
	EDM450-25P5	450-550	Soft	P5R	5.0kg	12.2km	4spls/ctn	20.0kg
	EDM450-25P10	450-550	Soft	P10	10.0kg	24.4km	2spls/ctn	20.0kg
	EDM450-25P15	450-550	Soft	P15	20.0kg	48.8km	1spl/ctn	20.0kg
	EDM450-25K125	450-550	Soft	K125	3.5kg	8.5km	4spls/ctn	14.0kg
	EDM450-25K160	450-550	Soft	K160	8.0kg	19.6km	2spls/ctn	16.0kg
	EDM450-25K200	450-550	Soft	K200	16.0kg	39.2km	1spl/ctn	16.0kg
0.300mm	EDM950-30P3	900-1035	Hard	P3R	3.0kg	5.0km	6spls/ctn	18.0kg
	EDM950-30P5	900-1035	Hard	P5R	5.0kg	8.4km	4spls/ctn	20.0kg
	EDM950-30P10	900-1035	Hard	P10	10.0kg	16.8km	2spls/ctn	20.0kg
	EDM950-30P15	900-1035	Hard	P15	20.0kg	33.5km	1spl/ctn	20.0kg
	EDM950-30K125	900-1035	Hard	K125	3.5kg	5.9km	4spls/ctn	14.0kg
	EDM950-30K160	900-1035	Hard	K160	8.0kg	13.4km	2spls/ctn	16.0kg
	EDM950-30K200	900-1035	Hard	K200	16.0kg	26.8km	1spl/ctn	16.0kg
0.300mm	EDM450-30P3	450-550	Soft	P3R	3.0kg	5.0km	6spls/ctn	18.0kg
	EDM450-30P5	450-550	Soft	P5R	5.0kg	8.4km	4spls/ctn	20.0kg
	EDM450-30P10	450-550	Soft	P10	10.0kg	16.8km	2spls/ctn	20.0kg
	EDM450-30P15	450-550	Soft	P15	20.0kg	33.5km	1spl/ctn	20.0kg
	EDM450-30K125	450-550	Soft	K125	3.5kg	5.9km	4spls/ctn	14.0kg
	EDM450-30K160	450-550	Soft	K160	8.0kg	13.4km	2spls/ctn	16.0kg
	EDM450-30K200	450-550	Soft	K200	16.0kg	26.8km	1spl/ctn	16.0kg

Technical specifications

Wire Diameter Sizes	0.200 mm , 0.250mm & 0.300mm
Diameter Tolerance	+0.000/-0.002mm
Tensile Strength	Hard wire : 900-1035N/mm ² Soft wire : 450-550N/mm ²
Brass Material Specs	CDA 274 STANDARD
Material Composition	63% Cu / 37% Zn

Plastic reel dimensions

SPOOL SIZE (mm)					
Spool Type	DO	DI	A1	A2	d
P-3R	130mm	80mm	110mm	90mm	20mm
P-5R	160mm	90mm	114mm	90mm	20mm
P-10	200mm	90mm	134mm	110mm	25mm
P-15	250mm	110mm	140mm	110mm	32mm
K125	125mm	80mm	125mm	100mm	16mm
K160	160mm	100mm	160mm	128mm	22mm
K200	200mm	125mm	200mm	160mm	22mm



Copper alloy wire Alambres de aleación de cobre

Tecnofil 

Isidro Bonifaz 471, Independencia Lima 28 Perú
Contact, Ronald S. Gillespie Sales Manager
T (511) 613 9200
F (511) 613 9201
E sales@tecnofil.com.pe www.tecnofil.com.pe

33 years at the
service of national
and global industry
offering the highest
quality

33 años al servicio
de la industria
nacional y mundial
ofreciendo la más
alta calidad

The Best Copper of the Peruvian Andes



Copper alloy wire Alambres de aleación de cobre

Chemical requirements 1				
Copper Alloy	Composition, %			
UNS No.	Copper	Lead, max	Iron, max	Zinc
CDA 21000	94.0 - 96.0	0.015	0.015	Remainder
CDA 22000	89.0 - 91.0	0.015	0.015	Remainder
CDA 23000	84.0 - 86.0	0.015	0.015	Remainder
CDA 24000	78.5 - 81.5	0.015	0.015	Remainder
CDA 26000	68.5 - 71.5	0.015	0.015	Remainder
CDA 27000	63.0 - 68.3	0.015	0.015	Remainder
CDA 27400	61.0 - 64.0	0.015	0.015	Remainder
CDA 28000	59.0 - 63.0	0.015	0.015	Remainder

Note: Special chemical requirements could supplier.

chemical requirements 2			
Copper Alloy	Composition, %		
UNS No.	CDA 51000	CDA 52100	CDA 52400
Tin	4.2 - 5.8	7.0 - 9.0	9.0 - 11.0
Phosphorus	0.03 - 0.35	0.03 - 0.35	0.03 - 0.35
Iron, max	0.02	0.02	0.02
Lead, max	0.02	0.02	0.02
Zinc, max	0.3	0.2	0.2
Copper	Remainder	Remainder	Remainder

Note: Special chemical requirements could supplier.

chemical requirements 3		
Copper Alloy	Composition, %	
UNS No.	CDA 65100	CDA 65500
Copper	Remainder	Remainder
Lead	0.02	0.02
Iron	0.8	0.8
Zinc	1.5	1.5
Manganese	0.7	0.50 - 1.30
Silicon	0.8 - 2.0	2.8 - 3.8
Nickel	***	0.6

Note: Special chemical requirements could supplier.

Brass Wire: CDA 210 up to CDA 280

We made a full range of brass wires Series 200 according to ASTM B134 and international specifications.

We offer materials according to customer demand for size, quality, temper, and packaging.

Phosphorous Bronze: CDA 50100, CDA 50500, CDA 50700, CDA 50900, CDA 51000, CDA 519 and CDA 521.

The most widely-used copper based alloy for almost every type of spring, because of its high strength, resilience, excellent corrosion and fatigue resistance. Combined with good conductivity, the alloy is used for all types of electrical devices - switches, relays, instruments, etc.

Available in wire

Chemical Composition is according to ASTM B 159

Silicon Bronze: CDA 651, 653 and 655

More corrosion resistant and stronger than brass.

Used in electrical circuitry in switchgears, etc., as well as valves and process control equipment.

Available in wire

Chemical Composition is according to ASTM B99

Packaging requirements: reels, spool, coils, carriers
According to material, size and customer.

EDM: electrical discharge machining – CDA 274

We provide a lineup of advanced products to satisfy the requirements of EDM.

- Manufactured with a precision of wire diameter tolerance of +0 /-0.002mm with no flaws or irregularities.
- Annealing technology assures a stable tensile strength, preventing wire breakage.
- Superior straightness most suitable for automatic threading.
- High purity brass

Alambre de Aleación: CDA 210 a CDA 280

Fabricamos un completo rango de alambres de latón de la Serie 200, acorde a la norma ASTM B134 y especificaciones internacionales. Ofrecemos materiales acordes a la demanda del cliente: tamaño, calidad, temple y empaque.

Bronce Fosforoso: CDA 501, CDA 505, CDA 507, CDA 509, CDA 510, CDA 519 y CDA 521

La aleación de cobre más usada para todo tipo de producto, por su gran fuerza y excelente resistencia a la corrosión y a la fatiga. Combinada con una buena conductividad, esta aleación es usada por todo tipo de aparatos eléctricos. Disponible en alambre. La composición química es acorde a la norma ASTM B159.

Aleación de Cobre con Silicio: CDA 651, 653 y 655

Más resistente a la corrosión y más fuerte que el latón. Usada en circuitos eléctricos, llaves de paso, etc., tanto como en válvulas y equipos de procesos de control. Disponible en alambre. La composición química es acorde a la norma ASTM B99.

Empaques: carretes, carriers, rollos y bobinas. Todos acordes al material, tamaño y cliente.

EDM: descarga eléctrica de mecanizado (electrical discharge machining) - CDA 274

Proveemos una línea de avanzados productos para satisfacer los requerimientos de EDM.

- Fabricados con una precisión de tolerancia de diámetro de +0 / -0.002 mm sin defectos o irregularidades.
- Nuestra tecnología de recocido asegura una fuerza de tensión estable, previniendo las roturas de alambre.
- Rectitud superior adecuada para el intercambio automático de roscado.
- Alambre de aleación de alta pureza.

Standard specification for brass wire 4											
Temper Designation		Tensile Strength, Ksi (MPa)									
Standard	Former	Copper Alloy No. CDA 21000		Copper Alloy No. CDA 22000		Copper Alloy No. CDA 23000		Copper Alloy No. CDA 24000		Copper Alloy No. CDA 26000, 27000, 27400	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
(B 601)											
O65	Annealed		40		43		48		55		55
H00	Eighth - hard	35(240)	45(310)	38(260)	50(345)	43(295)	57(395)	50(345)	65(450)	50(345)	65(450)
H01	Quarter - hard	41(285)	51(350)	45(310)	57(395)	53(365)	65(450)	62(425)	75(515)	62(425)	77(530)
H02	Half - hard	49(340)	58(400)	56(385)	67(460)	66(455)	77(530)	78(540)	90(620)	79(545)	94(650)
H03	Three - quarter - hard	57(395)	64(440)	64(440)	74(510)	76(525)	86(595)	90(620)	101(700)	92(635)	107(740)
H04	Hard	61(420)	68(470)	70(485)	79(545)	83(570)	92(635)	100(690)	110(760)	102(700)	117(810)
H06	Extra - hard	66(455)	73(505)	78(540)	86(595)	94(650)	102(700)	112(770)	121(830)	115(790)	129(890)
H08	Spring	72(495)	***	84(580)	***	100(690)	***	116(800)	***	120(830)	***

Standard specification for phosphor bronze wire 5							
Temper Designation		Tensile Strength, Ksi					
Standard	Former	Copper Alloy No. CDA 51000		Copper Alloy No. CDA 52100		Copper Alloy No. CDA 52400	
		Min	Max	Min	Max	Min	Max
H01	Quarter - hard	60	76	74	91	83	102
H02	Half - hard	80	97	95	115	108	129
H03	Three - quarter - hard	96	115	113	135	125	148
H04	Hard	108	128	125	150	135	160
H08	Spring	See Note *		***	***	***	***

Note * : Mechanical Requirements for H08 CDA 51000 depend of diameter.

Standard specification for copper - silicon alloy wire 6					
Temper Designation		Tensile Strength, Ksi			
Standard	Former	Copper Alloy No. CDA 65100		Copper Alloy No. CDA 65500	
		Min	Max	Min	Max
O61	Annealed	38	55	55	70
H00	Eighth - hard	50	65	62	78
H01	Quarter - hard	60	75	72	90
H02	Half - hard	75	95	90	110
H04	Hard	90	110	115	135
H08	Spring	100	***	130	***