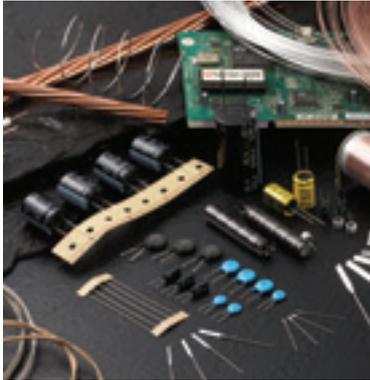


# 전자부품용

LEAD WIRE



# Lead Wire



Lead wire for interconnecting main electronic components with PCB board in order to activate each component with electrical & physical properties.

**+ Application** Capacitors (Electrolytic, Polymer Solid, Film, Ceramic), Resistor, Diode, Varistor, Jumper, Connector pin.

주요 전자부품과 PCB 기판을 연결함으로써 각 부품의 원활한 기능을 위한 전기적, 물리적 특성을 갖춘 인입선.

**+ 용도** 콘덴서(전해, 고분자, 필름, 세라믹), 저항, 다이오드, 바리스타, 점퍼, 커넥터핀용.

## Wire Specification

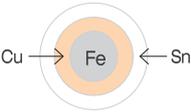
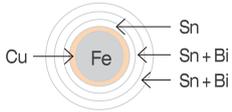
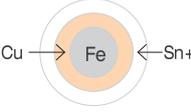
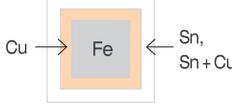
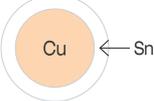
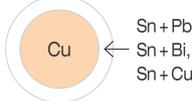
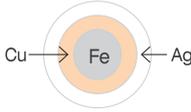
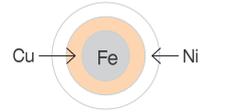
Item	Plating Material	Base Material	Diameter (mm)	Plating Thickness(μm)	Conductivity (%)	Tensile Strength(kgf/mm <sup>2</sup> )	
						Soft	Hard
TPC	Sn 100%	CP	0.26-1.5	Max. 14	15-53	Max. 45	44-62
TCA		Cu	0.26-1.5	Max. 14	Min. 90	Max. 28	Max. 35
TCO		OFC	0.26-1.5	Max. 14	Min. 90	Max. 28	Max. 35
TSBC		SBC*	0.26-1.0	Max. 14	Min. 90	Max. 28	Max. 35
TPC(B)	Sn+Bi	CP	0.26-1.5	Max. 14	15-53	Max. 45	44-62
TCA(B)		Cu	0.26-1.5	Max. 14	Min. 90	Max. 28	Max. 35
TCO(B)		OFC	0.26-1.5	Max. 14	Min. 90	Max. 28	Max. 35
TPC(C)	Sn+Cu	CP	0.26-1.5	Max. 14	15-53	Max. 45	44-62
TCA(C)		Cu	0.26-1.5	Max. 14	Min. 90	Max. 28	Max. 35
TCO(C)		OFC	0.26-1.5	Max. 14	Min. 90	Max. 28	Max. 35
APC	Ag	CP	0.26-0.8	Max. 10	15-53	Max. 45	44-62
ACA		Cu	0.26-0.8	Max. 10	Min. 98	Max. 28	Max. 35
ACO		OFC	0.26-0.8	Max. 10	Min. 98	Max. 28	Max. 35
ASBC		SBC	0.26-0.8	Max. 10	Min. 98	Max. 28	Max. 35
NPC	Ni	CP	0.26-1.0	Max. 10	15-53	Max. 45	44-62
NCA		Cu	0.26-1.0	Max. 10	Min. 90	Max. 28	Max. 35
NCO		OFC	0.26-1.0	Max. 10	Min. 90	Max. 28	Max. 35
CPS	Cu	Fe	0.26-1.5	*	15-53	Max. 45	44-62

※ SBC : Silver Bearing Copper.

※ CPS's plating thickness depends on wire diameter.

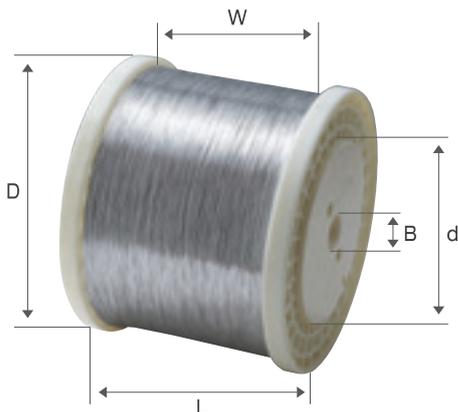
※ Any specification except the above is negotiable.

### Cross Section of Wire

Item	Cross Section	Item	Cross Section
Tin Plated on Copper Covered Steel Wire TPC		Sn+Bi Plated on Copper Covered Steel Wire TPC(B)	
Sn+Cu Plated on Copper Covered Steel Wire TPC(C)		Tin(or Sn+Cu) Plated on Copper Covered Square Steel Wire TPCHFS, TPCHFS(C)	
Tin Plated on Annealed Copper Wire TCA		Sn+Pb(Sn+Bi or Sn+Cu) Plated on Annealed Copper Wire 5TCA, TCA(B), TCA(C)	
Ag Plated on Copper Covered Steel Wire APC		Ni Plated on Copper Covered Steel Wire NPC	

### Packing

Type	A	B	C	D
Material				
	Paper Box	PVC Drum	P.P Drum	Fiber Drum
Dimension (mm)	280(L) X 280(W) X 265(H)	Ø250 X 285(H)	Ø290 X 320(H)	Ø400 X 290(H)
Weight (kg)		13-22		35-50



Bobbin Type	Dimension (mm)					Packing Weight (kg)
	D	d	B	W	L	
D-250	250	160	22	160	200	20
P-30	300	130	32	130	150	30
P-5	160	70	22	90	114	5

※ Any packing requirement except the above is negotiable.

# Aluminum Wire



High purity Aluminum wire with over 99.90% purity level.

**+ Application** Electrolytic capacitor, Polymer solid capacitor, Rivet for high-voltage capacitor, Film deposition, Accessories, Flowering.

전해콘덴서 및 기타 부품용 고순도 Al wire.

**+ 용도** 전해콘덴서, 고분자 콘덴서, 고압콘덴서용 리벳, 필름 증착용, 액세서리, 화훼용.

## Aluminum Wire for Lead Tab

### Chemical Composition

Purity (%)	Si	Fe	Cu	Mn	Cr	Zn	Ti	Al
99.99	Max. 0.005	Max. 0.005	Max. 0.005	-	-	-	-	99.99 over
99.92	Max. 0.05	Max. 0.07	Max. 0.01	Max. 0.01	-	-	Max. 0.01	99.92 over
99.90	Max. 0.05	Max. 0.07	Max. 0.01	Max. 0.01	-	-	Max. 0.01	99.90 over

### Wire Specification

Item Diameter (mm)	99.99%		99.92%		99.90%	
	Tensile Strength (kgf/mm <sup>2</sup> )	Conductivity (%)	Tensile Strength (kgf/mm <sup>2</sup> )	Conductivity (%)	Tensile Strength (kgf/mm <sup>2</sup> )	Conductivity (%)
0.6-1.5	Min. 10	Min. 63	16-22	Min. 61	16-22	Min. 61
1.9-2.5			14-19		14-19	

※ Any specification except the above is negotiable.

## Packing

Type	A		B
Wire Diameter (mm)	0.65-1.5	1.6-2.5	0.65-2.5
Material			
	Paper Box		Fiber Drum
Dimension (mm)	400(L) X 410(W) X 320(H)		∅430 X 580(H)
Weight (kg)	10 X 3EA=30	20 X 1EA=20	50 X 1EA=50
	15 X 2EA=30	10 X 2EA=20	

※ Any packing requirement except the above is negotiable.

# Hot-dipped Lead Wire



Hot-dipped type lead wire having proved whisker-free solution and heat-resistance properties with tight tolerance of coating thickness on a wire.

**+ Application** High voltage capacitor, Ceramic capacitor and other special usage.

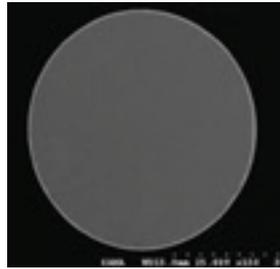
Whisker-free 특성과 함께 강한 내열성을 가진 도금두께가 균일한 용융도금 리드와이어.

**+ 용도** 고전압 콘덴서, 세라믹 콘덴서 및 다양한 부품용.

## Tight Tolerance of Coating Thickness



Base : CP Wire



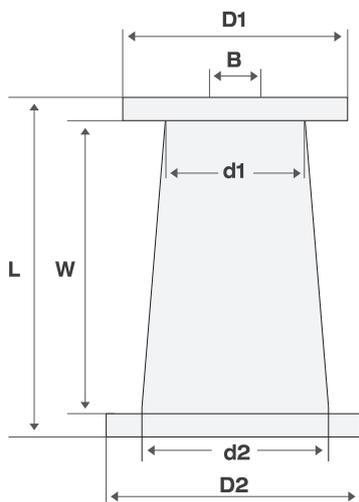
Base : Copper Wire

## Wire Specification

Item	Plating Material	Base Material	Diameter (mm)	Plating Thickness (μm)	Conductivity (%)	Tensile Strength (kgf/mm <sup>2</sup> )	
						Soft	Hard
HPC	Sn	CP	0.4-1.0	8, +3/-2	21-53	Max. 45	44~62
HCA		Cu	0.4-1.0	8, +3/-2	Min. 90	Max. 28	Min. 28
HPC(C)	Sn+Cu	CP	0.4-1.0	8, +3/-2	21-53	Max. 45	44~62
HCA(C)		Cu	0.4-1.0	8, +3/-2	Min. 90	Max. 28	Min. 28

※ Any specification except the above is negotiable.

## Packing



Bobbin Type	Dimension (mm)							Packing Weight (kg)
	D1	D2	d1	d2	B	W	L	
PT-25	215	230	110	130	32	250	280	25

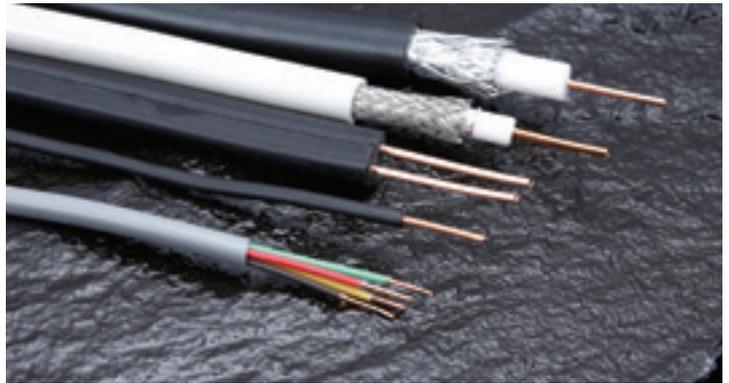
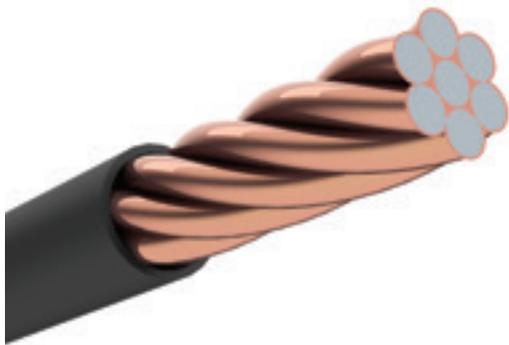
※ Any packing requirement except the above is negotiable.

# 케이블용

CABLE



# Copper Covered Steel Wire for Cables



**+ Application** Special conductors of cable wires having electric and physical properties defined by International Standard such as ASTM, BS.

**+ 용도** 국제규격(ASTM, BS)에 따른 전기적, 물리적 특성을 갖춘 케이블용 도체.

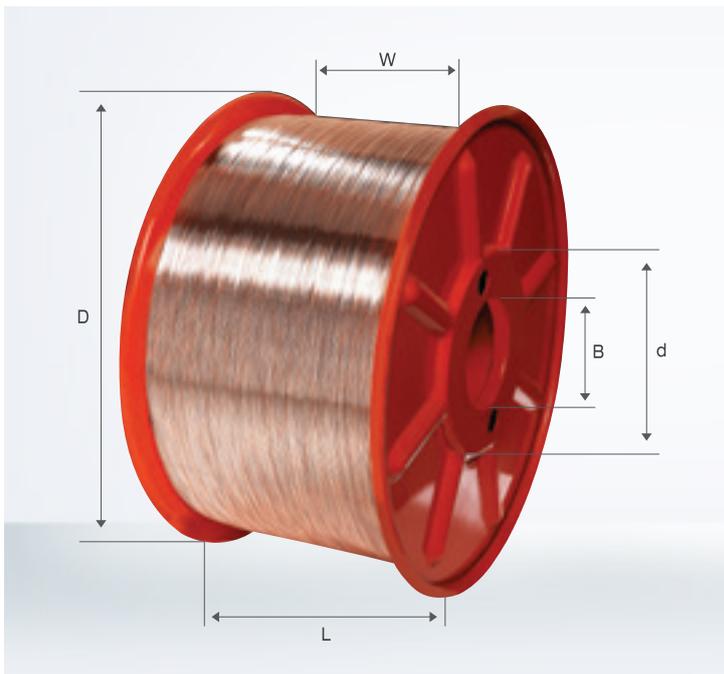
## Wire Specification

Application		Telecommunication*	Electricity	Harness
Item				
Diameter(mm)		0.5~2.59	1.0~4.1	0.1~1.0
Tensile Strength (kgf/mm <sup>2</sup> )	Soft	35~45	Min. 35	Min. 35
	Hard	87~100		
	Extra Hard	Min. 110	-	-
Conductivity(%)		18~53	18~53	18~53
International Standard		ASTM B-227 B-452 B-869 B-910 BS 4087	ASTM B-217 B-910	ASTM B-227 B-452 B-910

※ Telecommunication applications have Drop wire, Coaxial, Detonator and Ground tracer cables.

※ Any specification except the above is negotiable.

## Packing



Bobbin Type	Dimension (mm)					Packing Weight (kg)
	D	d	B	W	L	
800kg Steel	750	320	130	500	520	800
500kg Steel	580	267	130	450	474	500
300kg Steel	580	265	130	306	320	300

※ Any packing requirement except the above is negotiable.

# 기타

ETC.



# Guitar Wire



Special wire with physical properties for various Guitar strings.

+ **Application** Strings for Acoustic guitar, Electric and Bass guitar.

다양한 Guitar String에 사용되는 물리적 특성을 갖춘 와이어.

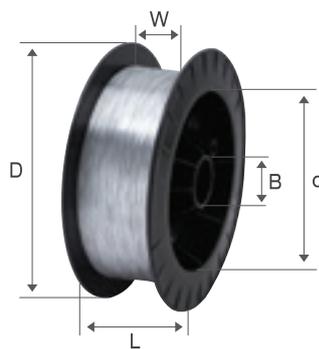
+ **용도** 어쿠스틱, 일렉트릭, 베이스 기타 스트링용.

## Wire Specification

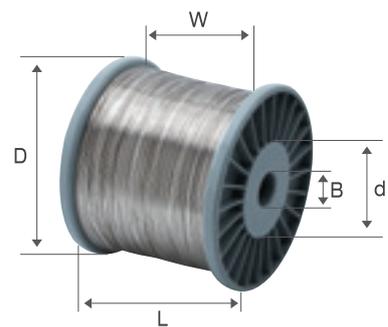
Item Type	Applied Part	Plating Material	Base Material	Shape	Diameter		Tensile Strength (kgf/mm <sup>2</sup> )
					mm	inch	
Acoustic	Single	Sn	Fe	Round	0.2 - 0.6	0.0078~0.0236	240~301
	Core	Sn	Fe	Hexagon	0.25~0.5	0.0098~0.0196	
	Wrap	-	Bronze	Round	0.12 - 0.6	0.0047~0.0236	
Elec/Bass	Single	Sn	Fe	Round	0.2 - 0.4	0.0078~0.0236	240~301
	Core	Sn	Fe	Hexagon	0.25 - 0.5	0.0098~0.0196	
	Wrap	Ni	CP	Round	0.12 - 0.6	0.0047~0.0236	

\* Any specification except the above is negotiable.

## Packing



Single / Core Wire



Wrap Wire

Item Application	Bobbin Type	Dimension (mm)					Packing Weight (kg)
		D	d	B	W	L	
Single / Core	SD-300	300	210	52	90	102	30
Wrap	P-3	130	60	21	90	110	3
	P-4	160	90	21	90	114	4

\* Any packing requirement except the above is negotiable.

# Tinned Copper Tape for Shielding Cables



With special heating process Tinned Copper Tape is able to achieve the features of anti-corrosion, electromagnetic shielding and required hardness.

+ **Application** Nuclear power cable and other high-voltage power cable with electromagnetic shielding property.

내부식성, 노이즈 예방을 위한 특수 열처리한 표면도금층으로 내마모성, 경도 향상시킨 제품.

+ **용도** 원자력용 케이블 및 기타 고압전력선 등에 차폐용으로 사용되는 주석도금 테이프.

## Tape Specification

Item	Dimension (mm)		Plating Thickness (μm)	Tensile Strength (kgf/mm <sup>2</sup> )
	Thickness	Width		
Cu	0.07~2.0	1.0~100	0.5~5	Max. 28
OFC				

※ Any specification except the above is negotiable.

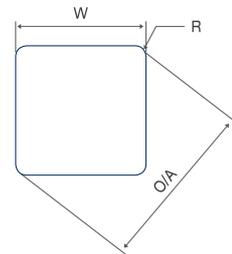
# Tinned Brass Square Wire

With excellent ductility and cold-forging property for the application of connector pins defined by JIS H3260

JIS H3260에 따른 커넥터 핀용으로 전연성, 냉간 단조성이 우수한 주석도금 황동선

## Wire Specification

Item	Composition(%)			
	Cu	Pb	Fe	Zn
C2600W	68.5~71.5	Max. 0.05	Max. 0.05	31.4~28.4
C2700W	63.0~67.0	Max. 0.05	Max. 0.05	36.9~32.9



Plating Thickness(μm)		Base Material	Dimension (mm)				Tensile Strength(kgf/mm <sup>2</sup> )			
Underlayer	Outlayer		Gauge	Width(W)	Opposite Angle (O/A)	Edge Radius(R)	1/4H	1/2H	3/4H	H
Ni	Sn									
0.7~1.6	1.5~2.6	Brass wire	0.5 □*	0.50±0.007	0.67±0.03	0.0418	40~52	50~62	60~72	70~82
			0.6 □	0.60±0.007	0.80±0.03	0.0556				
			0.64 □	0.64±0.007	0.85±0.03	0.0635				
			1.14 □	1.14+0.002/-0.017	1.46±0.03	0.1807				

※ □ is Square.

※ Any specification except the above is negotiable.

※ Any packing requirement is negotiable.

## Aluminum Rod for Making High Purity Alumina

+ **Application** LED Substrate, Secondary battery membrane.

+ **용도** LED 기판용, 2차 전지 분리막용.

### Chemical Composition

Purity (%)	Si	Fe	Cu	Mn	Cr	Zn	Ti	V	Al
	Na	Ni	Ca	Ga	Cr	Zr	K		
99.995	0.00028	0.0004	0.00047	0.00003	0.00029	0.00017	0.00006	0.00006	99.995 over
	0.00004	0.00003	0.00001	0.00003	0.00002	0.00003	0.00005		

※ Any specification except the above is negotiable.

※ Any packing requirement is negotiable.

# 회사소개

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주사 전자 현미경  
Scanning Electron Microscope



에너지 분산형 X선 형광 유해물질 분석기  
ED-XRF Hazardous Substance Spectrometer



유도결합플라즈마 분석기  
Inductively Coupled Plasma Spectrometer

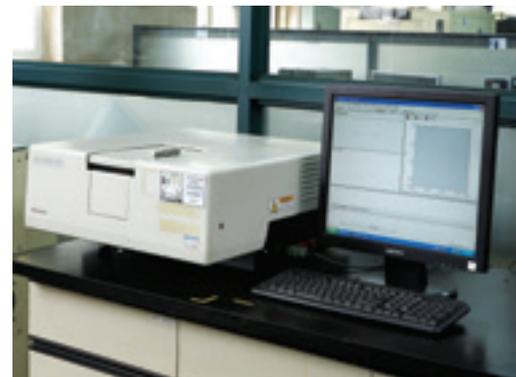
With the best technology  
& service  
Customers will be rewarded



발광 분광 분석기  
Spark Optical Emission Spectrometer



XRF 도금두께 측정기  
XRF Coating Thickness Gauge



자외선-가시광선 분광광도계  
Ultraviolet-Visible Spectrophotometer