



TIBTECH Innovations V34

		Conductive and heating yarns	Type	Quality NB	Reference identification	Main components	Remark	Resist./m	Color	Count	Apparent diameter	AWG (Ø cond part)	Nb cond. strands	Max. temp.	Max. amps (outside air)	Max. volts	Kn/sw-able	Flexibility	Fatigue with-standing			
INSULATED WIRES "I"	Conductib "I"	I 0,16	1434	C-Iv-0,16 Gn-XEO-T1,8-0,9 MF	copper alloy	PVC insulation	0,16Ω	bottle green	1,8g/m	0,9 mm				100°C	7,8A	380V	-	++	++			
		I 0,06	1556	C-Ie-0,06 Or-XEO-T4,5-1,3 MF	copper alloy	PTFE MFA ou PFA insulation	0,06Ω	orange	4,5g/m	1,3 mm				240°C	23A	380V	-	++	++			
		I 0,11	1054	C-Ie-0,11 Vi-XEO-T2,6-0,95 MF			0,11Ω	violet	2,6g/m	0,9 mm				14	200°C	9,7A	250V	-	++	++		
		I 0,17	1552	C-Ie-0,17 Rd-XEO-T0,9 MF			0,17Ω	rouge	1,7g/m	0,9 mm				7	200°C	6,9A	250V	-	+++	++		
		I 0,40	1668	C-Ie-0,40 (bl,wh,bl,vi)/r-XEO-T1,0-0,7 HF			0,40Ω	light blue	1,0g/m	0,6 mm				7	200°C	6,9A	250V	-	+++	++		
	I 0,48	1445	C-Ie-0,48 Gn-XEO-T0,74-0,6 HF	silver coated			0,48Ω	green	0,74g/m	0,6 mm			7	240°C	6,0A	250V	-	++	++			
	Thermotib "I"	I 0,93	1663	TTI-Ie-0,93 Me-XEO-T,93-1,3HF	Nickel plated CCS	PFA insulated	0,93Ω	melon	0,93g/m	0,6 mm				7	220°C	4,5A	380V	-	+++	+++		
		I 3,6	1359	T-Ie-3,6 Br-XEO-T3,4-1,35HF	Stainless steel alloys	PTFE MFA ou PFA insulation	3,6Ω	translucent	3,4g/m	1,1 mm		2200	200°C	3,6A	250V	-	+++	+++				
		I 4,6	1008	T-Ie-4,6 Tr-XEO-T2,6-1,28HF			4,6Ω	translucent	2,44g/m	1,0 mm		1650	240°C	2,8A	250V	-	+++	+++				
		I 7,0	1435	T-Ie-7,0 Bu-XEO-T2,3-1,10HF			7,0Ω	blue	2,3g/m	0,7 mm		1100	200°C	2,3A	250V	-	+++	+++				
		I 9,0	1472	T-Ie-9,0 Bu-XEO-T1,1-1,12HF			9,0Ω	translucent	1,1g/m	0,7 mm		825	200°C	2,0A	250V	-	+++	+++				
		I 14	1471	T-Ie-14 Bl-XEO-T1,6-0,86HF			14Ω	black	1,6g/m	0,7 mm		550	200°C	1,6A	250V	-	+++	+++				
		I 23	1480	T-Ie-23 Ye-XEO-T1,6-0,90HF			23Ω	yellow	0,85g/m	0,7 mm		270	240°C	1,4A	250V	-	+++	+++				
		IP 30	1134	T-Ip-30 Wh-XPO-T0,8-0,95HF			Polyester insulation	30Ω	white	0,8g/m	0,8 mm		180	120°C	0,62A	48CV	-	+++	+++			
		Thermotech "I"	N 0,19	1646			C-N-0,19 Co-000-N0,86-0,45MF	copper alloy	non insulated	0,19Ω	copper	0,86g/m	0,45 mm		27	19	280°C		n insul.	++	++	+
			N 0,35	1409			C-N-0,35 Gy-000-N0,86-0,80MF	copper/Tin alloy		0,35Ω	silver	1,06g/m	0,80 mm		20	7	280°C		n insul.	+++	+++	++
	N 0,93		1664	TTN-Ie-0,93 Me-XEO			CCS Nickel plated	Ultrafine CCS nickel	0,93Ω	silver	0,30g/m	0,48 mm		24	7	400°C		n insul.	+++	+++	+++	
	Thermaram		N 0,7	1390	TA-NTa-0,7 Gy-000-N0,36-0,35 MF	CuZn + Aramide	4 ft Cu	0,70Ω	yellow/silv.	0,36g/m	0,25 mm			4	300°C		n insul.	+	++	++		
			NW 0,7	1477	TA-NTaW-0,7 Gy-000-N0,5-0,36 MF		4 ft Cu+ binder	0,70Ω	yellow/silv.	0,60g/m	0,50 mm			4	300°C		n insul.	+	++	++		
		N 1,4	1347	H-N-1,8 Ye-000-N0,24-0,29 MF	2 ft		1,8Ω	yellow/silv.	0,24g/m	0,20 mm			2	300°C		n insul.	+	++	++			
radioclear	N 0,7	1459	H-N-0,7 Gy-000-N0,5-0,35 MF	Ultrafine CuAg + aramide	6 ft	0,70Ω	yellow/silv.	0,50g/m	0,35 mm			6	400°C		n insul.	+	++	++				
	NW 1,4	1479	H-N-2,0 Ye-000-N0,24-0,29 MF	Uf CuAg/aram/Pam	3 ft+binder	2,0Ω	white	0,24g/m	0,29 mm			3	300°C		n insul.	+	++	++				
Thermotech	N 1,3	1247	T-N-1,3 Gy-000-N6-1,4 LF	special stainless alloy	ultra flexible withstanding micro filaments fatigue washable	1,3Ω	grey	6,0g/m	1,40 mm			3X2000	600°C		Th	+++	+++	+++				
	N 3,6	1171	T-N-3,6 Gy-000-N1,9-0,70 HF			3,6Ω	grey	1,9g/m	0,70 mm		2200	600°C				n insul.	+	+++	+++			
	N 4,6	1170	T-N-4,6 Gy-000-N1,5-0,55 HF			4,6Ω	grey	1,48g/m	0,60 mm		1650	600°C				n insul.	+	+++	+++			
	N 7,0	1130	T-N-7,0 Gy-000-N1,0-0,50 HF			7,0Ω	grey	1,02g/m	0,50 mm		1100	600°C				n insul.	+++	+++	+++			
	N 9,0	1223	T-N-9,0 Gy-000-N0,75-0,40 HF			9,0Ω	grey	0,75g/m	0,40 mm		825	600°C				n insul.	+++	+++	+++			
	N 14	1005	T-N-14 Gy-000-N0,51-0,25 HF			14Ω	grey	0,51g/m	0,25 mm		550	600°C				n insul.	+++	+++	+++			
	NW14	1431	T-NWp-14 Gy-000-N0,55-0,26 HF			14Ω	Grey/white	0,55g/m	0,26 mm		550	600°C				n insul.	+++	+++	+++			
	N 23	1420	T-N-23 Gy-000-N0,33-0,20 HF			23Ω	grey	0,33g/m	0,20 mm		270	600°C				n insul.	+++	+++	+++			
	N 30	1006	T-N-30 Gy-000-N0,24-0,12 HF			30Ω	grey	0,24g/m	0,12 mm		180	600°C				n insul.	+++	+++	+++			
	NW 30	1399	T-NWp-30 Gy-000-N0,28-0,14 HF			30Ω	Grey/white	0,26g/m	0,14 mm		180	600°C				n insul.	+++	+++	+++			
	N 60	1003	T-N-60 Gy-000-N0,11-0,07 HF			60Ω	grey	0,11g/m	0,07 mm		90	600°C				n insul.	+++	+++	+++			
	NW 60	1475	T-NWp-60 Gy-000-N0,13-0,1 HF			60Ω	Grey/white	0,13g/m	0,10 mm		90	600°C				n insul.	+++	+++	+++			
	Thermoflex	Nf 130	E66			Tf-N-130 Gy-000-N0,24-0,29 MF	special stainless alloy	ultra fine stranded wire	130Ω	grey	0,8g/m	0,12 mm				9	600°C			+	++	+++
		Nf 190	E65			Tf-N-190 Gy-000-N0,55-0,29 MF			190Ω	grey	0,06g/m	0,10 mm					6	600°C			+	++
Nf 385		E65-a	Tf-N-390 Gy-000-N0,35-0,09 OMF	390Ω	grey	0,04g/m			0,09 mm					3	600°C			+	++	+++		
Silverpam	N 95	1165	S-N-600 Gy-000-N0, -0,05 HF	polyamide silver grafted + 15% pure silver content	antistatic and antibacterial good textile processability	600Ω	silver	0,0095g/m	0,05 mm				1	100°C								
	N290dt	1198	S-N-285 Gy-000-N0, -0,08 HF		special Z twist for sewing applications	285Ω	silver	0,029g/m	0,08 mm				3	100°C								
Data-Stretch	5144	1468	D-NS-5 Bl-000-N0,15-0,30 stretch	PAM / cu alloy / elast	enamled wires 30% stretch	5Ω	black	0,15g/m	0,30 mm				4	data		48V	+++	+++	++			
Data-trans	NW 4,2	1476	D-NWp-4,2 Wh-WP0-N0,18-0,28MF	PER/PAM/cu alloy	4% elongation	4,2Ω	white	0,18g/m	0,28 mm				4	data		48V	+++	+++	++			
Data-Copitech	N 3,5	E-63	C-N 3,5 Gy-000-N0,07-0,11 HF	CuAg stainless/aram	high conduct. ultrafine yarn	3,5Ω	silver	0,07g/m	0,11 mm		30	5	data		n insul.	++	++	++				
Data-wrap	NW 3,5	E-64	D-NWp-3,5 Wh-WP0-N0,12-0,21MF	CuAg/Stainless/aram/pam	High strength no elongation	3,5Ω	white	0,12g/m	0,21 mm		29	5	data		n insul.	++	++	++				
Radioclear C	C-1,4	1510	R-NWp-1,4 Wh-WP0-N0,15-0,24-Cpu	p aramid/ cu silver alloy/pam	Pu coating (knitting-sewing)	1,4Ω	white	0,15g/m	0,24 mm			24	6	120°C		48V	+++	+++	+++			
Polynox	micro filaments	N 12	1673	P-N-60 Gy-000-N0,17-0,25 MF	PER/micro stainless steel multifilaments wires	1700 dtex	60Ω	Grey/white	0,17g/m	0,25 mm			12	100°C								
		12W	1588	P-NW-60 Wh-000-N0,36-0,35 MF		3600 dtex protective binder incl	60Ω	white	0,36g/m	0,35 mm			12	100°C								
		duo	1174	P-N-350 Wh-000-N0,034-0,35 MF		340 dtex	350Ω	Grey/white	0,034g/m	0,15 mm			2	100°C								
	guitar	1573	P-N-1100 Gy-000-N0,34-0,5 MF	HS PER + multiwires	3400 dtex, for geotextiles	1100Ω	grey	0,34g/m	0,50 mm			3	130°C	heating	n insul.	+	++	++				
	spun	Nm 50/1	1499	Ps-N-a.stat Wh-000-N0,02-0,01 HF	80% PER 20% Inox fibers	fiber spun, antistatic, good textile processability	>50 kΩ/cm	grey	0,02g/m	0,01 mm		NA	100°C		n insul.	+++	+++	+++				
Nm 50/2		1463	Ps-N-400 Wh-000-N0,34-0,35 HF		fiber spun PBO, high strength, cut withstanding, temperature and conductivity	90Ω	grey	0,04g/m	0,02 mm		NA	100°C		n insul.	+++	+++	+++					
PBO-Inox	spun	Nm 8/2	1068	PB-N-90 Ye-000-N0,26-0,7 HF	50% PBO 50% Inox fibers							NA	100°C			++	+++	+++				

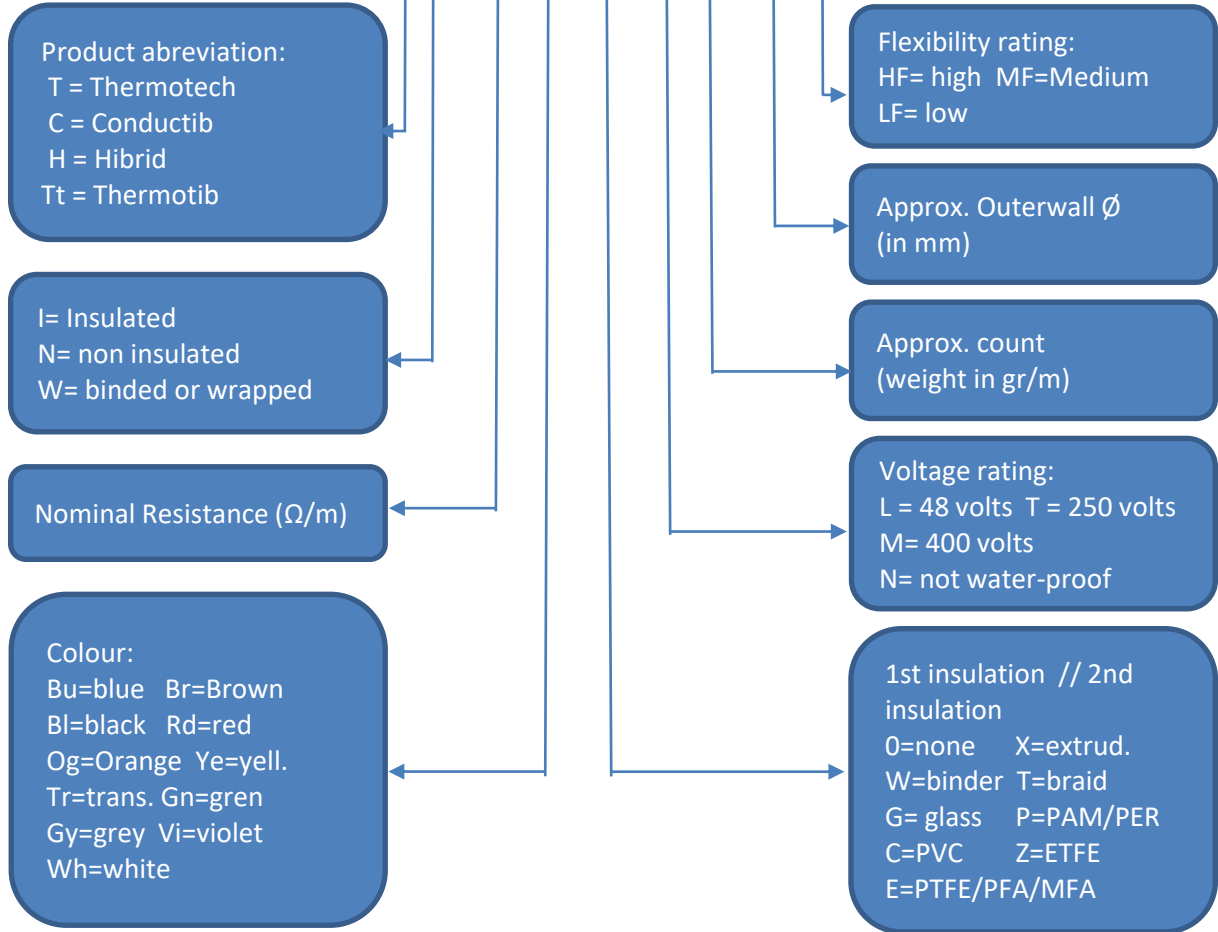
NON-INSULATED "N" or "W" types

only conductive use

heating

Example & explanation of the yarn ref:

C-iv - 0,16 Gn - XE0 - T 1,8 - 0,9 MF



colour codes	Tibtech	French	International
black	Bl	B	0
blue	Bu	H	6
brown	Br	C	1
green	Gn	H	5
grey	Gr	J	8
natural	Na	A	
orange	Og	E	3
red	Rd	D	2
translucent	Tr		
violet	Vi	K	7
white	Wh	L	9
yellow	Ye	F	4