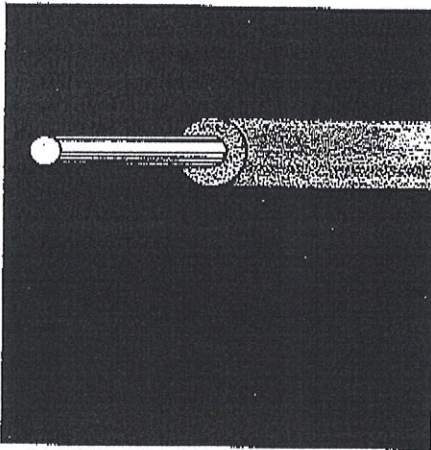


**Schaltdraht Wire-Wrap
mit ETFE Isolation
Tefzel**

**Wire-Wrap Connecting Wire
with ETFE insulation
Tefzel**

**Isolationseigenschaften
Insulation Properties**



Tefzel ETFE ist ein Fluorkunststoff und zeichnet sich durch gute Alterungsbeständigkeit, gleich gute elektrische und chemische Eigenschaften wie PTFE, jedoch eine viel höhere mechanische Festigkeit aus. Hierzu kommen leichtes Gewicht, hohe Temperaturbeständigkeit. Tefzel ist schwer entflammbar und selbstlöschend.

Tefzel ETFE is a fluorinated plastic with excellent aging stability. It equals PTFE in electrical and chemical properties but exhibits far superior mechanical qualities. Additional features are light weight and high temperature resistance. Tefzel is virtually non-inflammable and is self-extinguishing

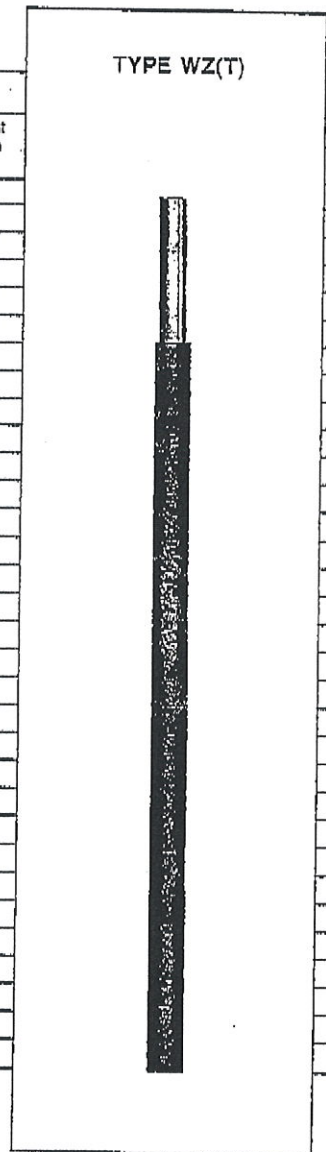
Betriebstemperatur <i>Operating Temperatures</i>	max. min.	+150° C -100° C
Spezifisches Gewicht <i>Specific gravity</i>		1,7 g/cm ³
Zugfestigkeit <i>Tensile strength</i>	nach ASTM D 638 per ASTM D 638	45 N/mm ²
Dehnung <i>Elongation</i>	nach ASTM D 638 per ASTM D 638	250 %
Härte Rockwell <i>Hardness Rockwell</i>		> 45 R
Durchschlagsfestigkeit 0,25 mm Foliendicke <i>Dielectric Strength of 0.25 mm foil</i>		> 80 kV/mm
Dielektrizitätskonstante 1 MHz ASTM D 150 <i>Dielectric Constant at 1 MHz ASTM D 150</i>		2,6
Verlustfaktor Loss Tangent at 1 MHz ASTM D 150 1 MHz ASTM D 150		0,005
Kerbfestigkeit <i>Notch Toughness</i> Cut through für AWG 24 Leiter <i>Cut through force for AWG 24 wire</i> Cold flow für AWG 24 Leiter <i>Cold flow force for AWG 24 wire</i>	nach MIL-W-81822	> 950 g (33.5 oz.) > 700 g (24.7 oz.)

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**ETFE INS.
 WIRE-WRAP
 WIRES**

**SPECIFICATION: MIL-W-81822/13 or
 HABIA INTERNAL SPECIFICATION (DERIVED FROM MIL-W-81822/13)**

AWG	CONDUCTOR				HABIA REFERENCE	INSULATED WIRE		
	∅ mm	Area mm ²	DC-Res.* at 20°C Ohm/km	Class		∅ Min. mm	∅ Max. mm	Weight kg/km
32	0.20	0.033	542	B	M-AZT 3201	0.45	0.49	0.55
	0.20	0.033	627	C	M-AZT 3201 TF	0.45	0.49	0.55
30	0.25	0.051	346	B	M-AZT 3001	0.47	0.52	0.70
	0.25	0.051	401	C	M-AZT 3001 TF	0.47	0.52	0.70
	0.25	0.051	346	B	*H-WZT 3001	0.49	0.58	0.75
	0.25	0.051	401	C	H-WZT 3001 TF	0.49	0.58	0.75
	0.25	0.051	346	B	H-CSW 3001	0.47	0.52	0.70
28	0.32	0.080	217	B	H-WZT 2801	0.57	0.67	1.1
26	0.40	0.13	137	B	H-WZT 2601	0.65	0.75	1.6
	0.40	0.13	137	B	H-CSW 2601	0.66	0.76	1.7
	0.40	0.13	137	B	H- WZ 2601	0.81	0.91	1.9
24	0.51	0.21	85.6	B	H-WZT 2401	0.76	0.85	2.3
	0.51	0.21	85.6	B	H- WZ 2401	0.91	1.01	2.7
22	0.64	0.32	54.7	B	H-WZT 2201	0.89	0.98	3.5
	0.64	0.32	54.7	B	H- WZ 2201	1.04	1.14	3.9
20	0.81	0.52	34.2	B	H-WZT 2001	1.06	1.15	5.4
	0.81	0.52	34.2	B	H- WZ 2001	1.21	1.31	5.8



Differences in Habia references covering the same conductor dimensions depend on various proportions of insulation. See explanation on sheet WW-MAT-01-01.

- CONDUCTOR** : Class A - Silver plated copper (SPC)
 Class B - Silver plated oxygen free high conductivity copper (SPOFHC)
 Class C - Silver plated high strength copper alloy (SPTF), suffix "TF" in Habia reference.
 * Values stated are in accordance with IEC 228.
 Other conductors available, technical details upon request.
- TEMPERATURE RATING** : - 65°C to + 150°C.
- MAX. SERVICE VOLTAGE** : 300 Volts RMS for WZT, AZT and CSW types
 600 Volts RMS for WZ types.
- TEST VOLTAGE** : 3000 Volts RMS.
- STANDARD COLOURS** : Black, brown, red, orange, yellow, green, blue, violet, grey, white. Other colours upon request.