

ETZ-C21 Zero halogen 2:1 continuous tubing

expressMARK

For applications where limited fire hazard characteristics are critical. The zero halogen, low smoke and low toxic fume emissions make this product ideal for use in enclosed spaces such as mass transit, marine and industrial installations. Marks are permanent immediately after printing and remain legible when exposed to abrasion and aggressive cleaning solvents.



Ordering information

ETZ-C21 standard spools (For bulk spools please visit our website)

Sleeve Diameter	Part Number (WHITE)	Part Number (YELLOW)	Pack Size
2.4	ETZ-9-024C21-030M	ETZ-4-024C21-030M	30M
3.2	ETZ-9-032C21-030M	ETZ-4-032C21-030M	30M
4.8	ETZ-9-048C21-030M	ETZ-4-048C21-030M	30M
6.4	ETZ-9-064C21-030M	ETZ-4-064C21-030M	30M
9.5	ETZ-9-095C21-030M	ETZ-4-095C21-030M	30M
12.7	ETZ-9-127C21-025M	ETZ-4-127C21-025M	25M
19.0	ETZ-9-190C21-025M	ETZ-4-190C21-025M	25M
25.4	ETZ-9-254C21-025M	ETZ-4-254C21-025M	25M
38.1	ETZ-9-381C21-020M	ETZ-4-381C21-020M	20M

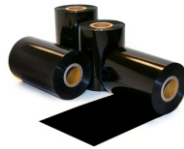
All dimensions are in mm



Black High Performance Ribbon

1966-RIBBON 100mm x 300M

Compatible with the following printer models : T2212, T200-IDENT, T3212, T3224, TE3112, TE3124, EOS1, EOS2 and SQUIX.



Physical

Properties	Test Method	Typical Value
Tensile strength	ASTM D 638	≥14 N/mm ²
Elongation at break	ASTM D 638	≥400%
Longitudinal change	SAE-AMS-DTL-23053	0% - -2%
Specific gravity	ASTM D 792	1.34g/cm ³
Secant modulus	ASTM D 882	65 Mpa

Electrical

Properties	Test Method	Typical Value
Dielectric strength	UL 224	15 kV/mm
Volume resistivity	ASTM D 876	3.1 x 10 ¹⁴ Ω cm
Voltage rating	UL 224	600V
Die-electric voltage (2.5kV x 60s)	UL 224	Pass. No breakdown.

Chemical

Properties	Test Method	Typical Value
Fungus resistance	ASTM G 21	Pass. No growth.
Fluid resistance (after 24hrs at 23°C)	SAE-AMS-DTL-23053	7.25 - 14 MPa

Thermal

Properties	Test Method	Typical Value
Heat shock (4hrs at 250°C)	SAE-AMS-DTL-23053	Pass.
Elongation heat ageing (4hrs 158°C)	SAE-AMS-DTL-23053	≥400%
Copper corrosion (168hrs at 158°C)	SAE-AMS-DTL-23053	Pass
Stability against copper (168hrs at 158°C)	SAE-AMS-DTL-23053	Pass
Low temp flexibility (4hrs at -55°C)	SAE-AMS-DTL-23053	No cracking
Flammability	UL 224	VW-1 pass

Technical Data



Standard Colours

White and Yellow.

Other colours on request.

Material

Radiation cross linked polyolefin.
Flat printable continuous sleeving.
2:1 shrink ratio.

Operating Temperature

-55°C to +105°C

Shrink Temperature

>90°C

Mark permanence

SAE AS81531:1998, point 4.6.2

Chemical & solvent resistance

MIL-STD-202F method 215J

Standards

BS 6853 vehicle category 1a
EN 45545-2 (rail rolling stock)
LU 1-085:A3 (compliant)
NF F 16-101 (French rolling stock)
DIN 5510-2 (German rolling stock)
UNI CEI 11170-3 (Italian rolling stock)
NFPA130 (fixed guideway transit systems)
NFPA130 (to meet Boeing toxicity test)

Regulations

REACH and RoHS compliant

Print Method

Thermal transfer

Storage

Store in original packaging.
Recommended storage environment is +10°C to +25°C and 50% relative humidity.

Tel : +44 (0)141 941 3689 Email : sales@expresselectrical.co.uk

www.expresselectrical.co.uk

LABEL & IDENTIFY