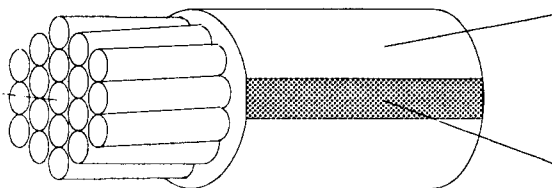


WIRE, STRIPED RADIATION CROSSLINKED POLYOLEFIN INSULATED, 600/1000 VOLT
The complete requirements for procuring the wire described herein shall consist of this document.

Conductor -
IEC 228 Class 6
Tin Plated Copper



Insulation -
Flame Retarded, Radiation
Crosslinked Flexible Polyolefin
(Thermorad 1602)

Co-extruded Stripe

| Part Number | Conductor Stranding No/Dia (mm) | Conductor Diameter (mm) | | FINISHED WIRE | | | | Nominal Weight (kg/km) |
|--------------|---------------------------------|-------------------------|------|-------------------------------------|------------------|--------|------------------|------------------------|
| | | | | Maximum Resistance @20 °C (ohms/km) | Diameter (mm) | | | |
| | | | | | Lower Spec Limit | Target | Upper Spec Limit | |
| TRS16-1.5-* | 85/0.16 | 1.38 | 1.68 | 12.80 | 2.80 | 3.00 | 3.20 | 22 |
| TRS16-2.5-* | 7x20/0.16 | 2.20 | 2.60 | 7.76 | 3.70 | 3.90 | 4.10 | 35 |
| TRS16-4.0-* | 7x33/0.16 | 2.65 | 3.15 | 4.76 | 4.25 | 4.50 | 4.75 | 54 |
| TRS16-6.0-* | 7x27/0.21 | 3.35 | 3.85 | 3.23 | 4.95 | 5.20 | 5.45 | 74 |
| TRS16-10.0-* | 19x17/0.21 | 4.30 | 4.80 | 1.88 | 5.90 | 6.20 | 6.50 | 121 |
| TRS16-16.0-* | 19x27/0.21 | 5.20 | 5.80 | 1.19 | 7.10 | 7.40 | 7.70 | 188 |
| TRS16-25.0-* | 37x21/0.21 | 6.90 | 7.30 | 0.78 | 9.00 | 9.30 | 9.60 | 284 |
| TRS16-35.0-* | 37x30/0.21 | 8.10 | 8.80 | 0.552 | 10.30 | 10.60 | 10.90 | 395 |

COLOUR CODE: The "*" in the part number shall be replaced by a standard colour code designator in accordance with Mil Std 68 eg: TRS16-2.5-45 yellow insulation with green stripe

STRIPE DETAILS: All products to carry three co-extruded longitudinal stripes, 30% minimum coverage.

Tests requirements in accordance with WCD51 test methods

| Test | Requirement | Frequency |
|--|--|-----------|
| Spark test | Sizes 1.5 to 16.0, 6kV; sizes 25.0 to 35.0, 10kV | 100% |
| Tensile strength | 12MPa minimum | Batch |
| Elongation | 250% minimum | Batch |
| 5% Modulus | 80MPa maximum | Qual |
| Tear strength | 10N/mm minimum | Qual |
| Abrasion resistance | 300 scrapes minimum with 1.6kg load | Qual |
| Concentricity | 70% minimum | Batch |
| Insulation Resistance | 20Mohm.km minimum | Monthly |
| Heat ageing, 120 hrs @ 170°C ± 3°C | 60% minimum retention of tensile strength and elongation | Qual |
| Heat ageing, 4 hrs @ 225°C ± 3°C | 60% minimum retention of tensile strength and elongation | Monthly |
| Heat shock, 4 hrs @ 225°C ± 3°C | No cracks, drips, flowing, 6mm total shrinkage | Batch |
| Cold bend, -55°C ± 3°C | No cracking | Qual |
| 45° Flammability | 30 seconds maximum afterburn, 75mm maximum burn length | Monthly |
| Acid gas | 4% HCl equivalent maximum | Qual |
| Solvent resistance, 72 hrs in ASTM No.2 @ 50°C ± 3°C | 60% minimum retention of tensile strength and elongation | Qual |

W & C DESIGN
RED STAMP - CONTROL COPY
BLACK STAMP - CHECK FOR
LATEST ISSUE

| DESIGN | PROD. MAN. | TECHNICAL | QA | MANUFACTURE |
|-------------------------------|-------------------------------|------------------------------|------------------------------|-------------------------------|
| <i>[Signature]</i> 12/3/97 | <i>[Signature]</i> 17/3/97 | <i>[Signature]</i> 8/4/97 | <i>[Signature]</i> 9/4/97 | <i>[Signature]</i> 17/3/97 |

Raychem Limited Registration Number: 674709 London, England
Faraday Road, Swindon, Wiltshire, UK
Dorset House, 7 Rolls Buildings, Fetter Lane
SWINDON LONDON
SN3 5HH EC4A 1NH
Tel: (01793) 528171
Telex: 449409

This drawing and the information set forth hereon are the property of Raychem Ltd. and are to be held in trust and confidence. Publication, duplication, disclosure or use for any purpose not expressly authorised in writing by Raychem Ltd. is prohibited.

This specification sheet takes precedence over documents referenced herein. As Raychem Ltd. reserve the right to make changes in construction without notice please contact Raychem Ltd. to ensure that this document is the latest issue.