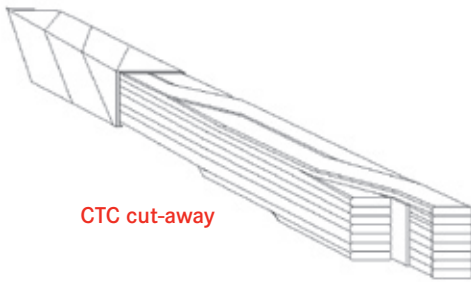


# Continuously Transposed Cable

INSULATION ENGINEERING DETAIL



## CTC Construction

### Standard Construction

Individual strands are CDA11000 ETP copper magnet wire conforming to ASTM B-48-68. Each strand is insulated with heavy build Formvar® (modified polyvinyl formal) enamel insulation conforming to NEMA MW 18-C.

### Optional Construction

- Cold work hardened strands up to 26,000 psi (180 newton/mm<sup>2</sup>) 0.2% offset yield.
- Anneal resistant DCDA11400 silver bearing copper strands (approximately 55,000 psi (380 newton/mm<sup>2</sup>) 0.2% offset yield).
- “B” staged epoxy coating over the enamel insulation.



### Outer Covering

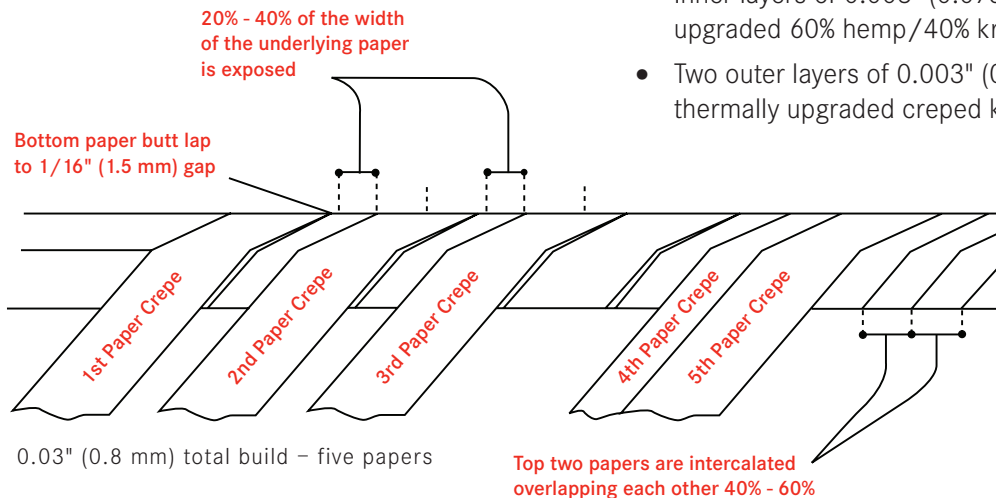
An outer covering of insulated tapes is applied over the transposed conductors to provide mechanical and dielectric strength. These tapes are normally applied with a butt lap and are registered approximately 30% over the previous layer. The top two tapes are normally applied with a butt intercalated lap of 50%.

### Standard Insulation

- 0.003" (0.076 mm) thermally upgraded creped kraft paper.

### Optional Insulations

- Inner layers of 0.003" (0.076 mm) thermally upgraded 60% hemp/40% kraft paper.
- Two outer layers of 0.003" (0.076 mm) thermally upgraded creped kraft paper.



## Continuously Transposed Cable

INSULATION ENGINEERING DETAIL

### Advantages to using Rea Magnet Wire CTC

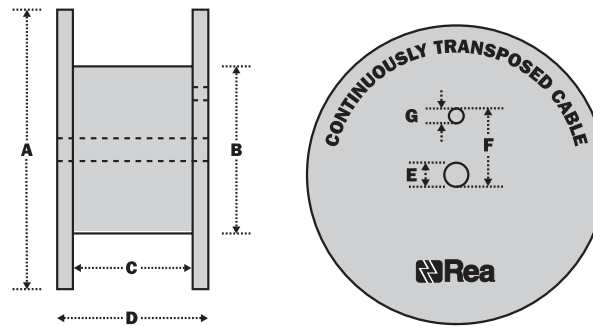
- Competitive Lead Times
- Exceptional Quality
- Personal Customer Service
- Long Industry History
- Flexible Capability
- Design Experience

### Design Limits (English)

Individual Strands	Soft ETP Copper	Work Hardened	Silver Bearing
Minimum Number	5	5	5
Maximum Number	43	43	43
Minimum Thickness	0.040	0.040	0.040
Maximum Thickness	0.120	0.120	0.120
Minimum Width	0.120	0.120	0.120
Maximum Width	0.450	0.458	0.358
Minimum Width/Thickness	1.5 TO 1	1.5 TO 1	1.9 TO 1
Maximum Width/Thickness	6.5 TO 1	5 TO 1	5 TO 1

### Design Limits (Metric)

Individual Strands	Soft ETP Copper	Work Hardened	Silver Bearing
Minimum Number	5	5	5
Maximum Number	43	43	43
Minimum Thickness	1.01	1.01	1.01
Maximum Thickness	3.05	3.05	3.05
Minimum Width	3.05	3.05	3.05
Maximum Width	11.43	11.43	8.89
Minimum Width/Thickness	1.5 TO 1	1.5 TO 1	1.9 TO 1
Maximum Width/Thickness	6.5 TO 1	5 TO 1	5 TO 1



### Standard Package Options

A Flange Diameter		B Barrel Diameter		C Traverse Width		D Overall Width		E Arbor Diameter		F Drive Hole Location		G Drive hole Diameter		Approximate Capacity	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg.
72	1829	48	1219	36	914	42.5	1080	5	127	10	254	2.5	64	13,500	6,124
60	1524	36	914	32	813	38.5	978	5	127	10	254	2.5	64	9,600	4,355
60	1524	36	914	24	610	30.5	775	5	127	10	254	2.5	64	7,200	3,266
60	1524	36	914	12	305	18.5	470	5	127	10	254	2.5	64	3,600	1,633
48	1219	24	610	24	610	30.5	775	5	127	10	254	2	51	5,400	2,449
48	1219	24	610	8.75	222	15.3	387	5	127	10	254	2	51	1,900	862