

WRAPTER HELICALS

Quick Reference Guide

WrapTEr Helical Fittings

TE Connectivity are a leader in the design and supply of Helical Fittings for use on Utility and Distribution Networks across the ANZ region.

TE Connectivity can provide a wide range of WrapTEr helical terminations, joints, protection, restoration, repair and support fittings for use on bare and insulated overhead conductor. Each fitting is custom designed for a particular conductor range and type.

All fittings are manufactured from premium materials, which are compatible with the materials used in the conductor / cable onto which they are applied. This ensures maximum electrical and mechanical performance, whilst minimising corrosion potential.

Key Features of WrapTEr Helical Fittings

Uniform grip to stop any distortion of the conductor or damage to the conductor



Type Tested to AS 1154 at an Independent NATA certified Mechanical laboratory

Colour coding to the requirements of AS 1154.3

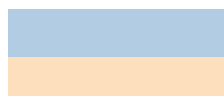
Easy Installation by hand or live line methods, no need for any special tools



Contents and Selection Guide

Application	Fitting Type	Prefix	Min Strength Rating on Conductor Type (UTS)					Page
			AAC	AAAC	ACSR	HDC	SC/GZ	
Termination	Deadend							
	Aluminium Alloy	FAD	90%	90%	60-85%			5
	Aluminium Clad Steel	FSLD			90%			6
	Copper	FCD				90%		7
	Galvanised Steel	FGD					90%	8
Protection	Armour Rod							
	Aluminium Alloy	NAA						9
	Copper	NCA						10
	Galvanised Steel	NGA						10

Colour Coding Key



Applicable for use on the cable type shown

Limited Tension on the cable types shown

PRODUCT NOMENCLATURE

F A D 0515 - 0540 - 6 L

Fitting Rating		Fitting Material		Fitting Material Fitting Application		Bottom Conductor Range		Top Conductor Range		Loop Diameter (for Deadends)		Fitting Lay	
F	FULL TENSION	A	ALUMINIUM	A	ARMOUR	0410	Ø 4.1 mm	0445	Ø 4.45 mm	3	Ø 40	R	RIGHT HAND LAY
N	NON TENSION	C	COPPER	B	BIRD DIVERTER	TO		TO		4	Ø 45	L	LEFT HAND LAY
L	LIMITED TENSION	L	ALUMINIUM CLAD STEEL	D	DEADEND	2980	Ø 29.80 mm	3080	Ø 30.80 mm	5	Ø 55	N	NEOPRENE COVER
FS	FULL TENSION SPECIFIC APPLICATION	G	GALVANISED STEEL	G	GUY GRIP					6	Ø 60		
		P	POLYMERIC	J	SPLICE (JOIN)					7	Ø 65		
		M	MULTI	P	PROTECTION					8	Ø 75		
		D	DOUBLE INSULATED	S	SIDE TIE								
		T			TOP TIE								

Full Tension Aluminium Dead-End

FAD Aluminium based dead-ends are designed to carry out terminations on overhead distribution networks for AAC, AAAC and ACSR style conductors. Their single, one piece design provides a uniform clamping load over a large cross section of the conductor.

A wide range of fittings have been developed to cover all conductors sizes/styles, with each specific application range as per the below table.



RATED HOLDING STRENGTH

On AAC and AAAC style conductors, WrapTEr FAD fittings hold a minimum of 90% of the ultimate tensile strength of the conductor, onto which they are applied. For strength ratings on ACSR conductors, please consult TE.

ORDERING INFORMATION

Catalogue Number	No. of Rods	Conductor Stranding	Conductor OD Range	Pack Quantity	Colour Code
FAD0515-0540-6	4	7/1.75	5.15 - 5.40	50	Purple
FAD0655-0710-6	4	7/2.25	6.55 - 7.10	50	Brown
FAD0735-0760-6	4	7/2.50	7.35 - 7.60	50	Blue
FAD0795-0860-6	4	7/2.75	7.95 - 8.60	40	White
FAD0865-0935-6	4	7/3.00	8.65 - 9.35	40	Red
FAD1015-1050-6	4	7/3.40	10.15 - 10.50	40	Blue
FAD1080-1130-6	4	7/3.75	10.80 - 11.30	25	Black
FAD1305-1405-6	6	7/4.50	13.05 - 14.05	20	Green
FAD1385-1445-6	6	7/4.75	13.85 - 14.45	20	Blue
FAD1565-1690-7	5	19/3.25	15.65 - 16.90	15	Orange
FAD1705-1780-7	5	19/3.50	17.05 - 17.80	10	Blue
FAD1855-1935-8	6	19/3.75	18.55 - 19.35	10	Black
FAD2020-2185-8	6	37/3.00	20.20 - 21.85	10	Red
FAD2245-2420-8	7	37/3.25	22.45 - 24.20	10	Blue
FAD2375-2620-8	6	19/4.75	23.75 - 26.20	10	Blue
FAD2530-2730-8	8	37/3.75	25.30 - 27.30	10	Black
FAD2860-3085-8	8	61/3.25	28.60 - 30.85	10	Orange

Unless specified otherwise, WrapTEr fittings are right-hand lay. Please specify on your order if you require left-hand lay fittings.

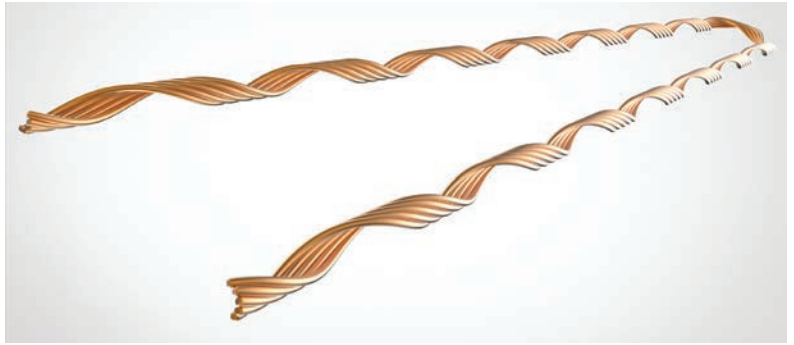
Full Tension Copper Dead-End

FCD style dead-ends are designed to be an effective method of carrying out terminations on hard-drawn Copper and Copper alloy conductors.

The material used is ideally suited for highly polluted and coastal conditions.

RATED HOLDING STRENGTH

On hard-drawn Copper conductors, WrapTEr FCD fittings hold a minimum of 90% of the ultimate tensile strength of the conductor, onto which they are applied.



ORDERING INFORMATION

Catalogue Number	No. of Rods	Conductor Stranding	Conductor OD Range	Pack Quantity	Colour Code
FCD0480-0525-6	4	7/1.75	4.80 - 5.25	50	Purple
FCD0600-0630-6	5	7/2.00	6.00 - 6.30	50	Yellow
FCD0790-0875-6	5	7/2.75	7.90 - 8.75	40	White/Purple
FCD0900-0925-5	6	7/3.00	9.00 - 9.25	30	Red
FCD0990-1065-6	4	19/2.00	9.90 - 10.65	20	Purple/Yellow
FCD1070-1125-6	5	19/2.14	10.70 - 11.25	20	Black
FCD1255-1320-6	6	19/2.56	12.55 - 13.20	15	Yellow
FCD1320-1375-6	6	19/2.75	13.20 - 13.75	10	White
FCD1450-1505-6	6	19/3.00	14.50 - 15.05	10	Red
FCD1810-1900-6	6	37/0.103	18.10 - 19.00	5	White

Unless specified otherwise, WrapTEr fittings are right-hand lay. Please specify on your order if you require left-hand lay fittings.

Full Tension Galvanised Steel Dead-End

FGD Full tension dead-ends are designed specifically to be used as a termination on SC/GZ style conductors.

Dead-ends are typically used for the termination of guy wires, stay conductors and earth wires.



RATED HOLDING STRENGTH

On all SC/GZ style conductors, FGD fittings hold a minimum of 90% of the ultimate tensile strength of the conductor, onto which they are applied.

ORDERING INFORMATION

Catalogue Number	No. of Rods	Conductor Stranding	Conductor OD Range	Pack Quantity	Colour Code
FGD0370-0385-3	4	7/1.25	3.70 - 3.85	50	Green
FGD0420-0440-4	4	3/2.00	4.20 - 4.40	50	Yellow
FGD0465-0500-4	4	7/1.60	4.65 - 5.00	50	Black
FGD0550-0595-4	4	3/2.75	5.50 - 5.95	50	White
FGD0550-0595-4L*	4	3/2.75	5.50 - 5.95	50	White
FGD0595-0620-5	5	7/2.00	5.95 - 6.20	50	Yellow
FGD0790-0830-7	5	7/2.75	7.90 - 8.30	20	White
FGD0970-1020-7	5	7/3.25	9.70 - 10.20	20	Yellow/Orange
FGD1085-1170-7	6	7/3.75	10.85 - 11.70	20	Black
FGD1185-1220-7	6	7/4.00	11.85 - 12.20	15	Black
FGD1305-1395-8	5	19/2.75	13.05 - 13.95	5	White
FGD1600-1640-8	6	19/3.25	16.00 - 16.40	5	Orange

* Left hand lay

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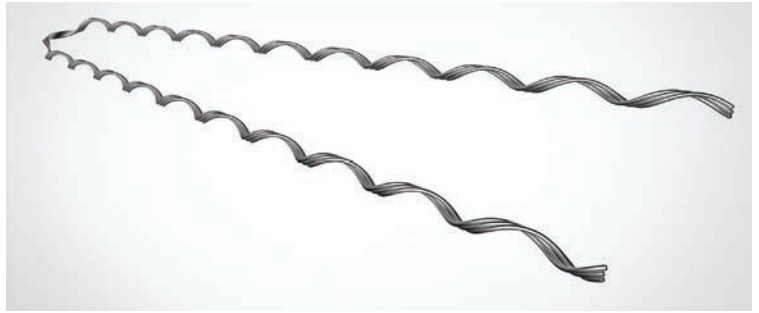
Full Tension Specific ALCLAD Dead-End

FSLD Full tension dead-ends are designed specifically to be used as a termination on ACSR style conductors.

The unique one piece design, provides maximum strength and quick and simple installation.

RATED HOLDING STRENGTH

On all ACSR style conductors, FSLD fittings hold a minimum of 90% of the ultimate tensile strength of the conductor, onto which they are applied.



ORDERING INFORMATION

Catalogue Number	No. of Rods	Conductor Stranding	Pack Quantity	Colour Code
FSLD0525-5	3	3/4/1.75	50	Purple
FSLD0590-5	3	6/0.074 + 1/0.133	30	Yellow
FSLD0750-5	3	6/1/2.50	30	Blue
FSLD0810-0880-5	4	6/0.105 + 1/0.188	25	White
FSLD0900-5	4	6/1/3.00	25	Red
FSLD0980-1030-5	3	3/4/3.37	25	Orange
FSLD1125-5	3	6/1/3.75	25	Black
FSLD1410-1430-5	3	6/4.75 + 7/1.60	20	Blue

Unless specified otherwise, WrapTEr fittings are right-hand lay. Please specify on your order if you require left-hand lay fittings.

Aluminium Armour Rods

Armour Rods are designed to be used as protection against bending, compressive stresses, abrasion and arcing damage on conductors.

- Type NAA: Aluminium Armour rods for use on AAC/AAAC/ACSR conductor



ORDERING INFORMATION

Catalogue Number	No. of Rods	Conductor Stranding AAC/AAAC	Conductor Stranding ACSR	Conductor OD Range	Pack Quantity	Colour Code
NAA0495-0530	7	7/1.75	3/4/1.75	4.95 - 5.30	50	Purple
NAA0495-0530-S*	7 (3&4)	7/1.75	3/4/1.75	4.95 - 5.30	50	Purple
NAA0735-0785	8	7/2.50	6/1/2.50 - 3/4/2.50	7.35 - 7.85	50	Blue
NAA0735-0785-S*	8 (4&4)	7/2.50	6/1/2.50 - 3/4/2.50	7.35 - 7.85	50	Blue
NAA0880-0930	9	7/3.00	6/1/3.00 - 4/3/3.00	8.80 - 9.30	40	Red
NAA0880-0930-S*	9 (3&3&3)	7/3.00	6/1/3.00 - 4/3/3.00	8.80 - 9.30	40	Red
NAA0990-1050	9	7/0.134		9.90 - 10.50	40	Purple
NAA1110-1180	10	7/3.75	6/1/3.75 - 4/3/3.75	11.10 - 11.80	25	Black
NAA1110-1180-S*	10 (4&3&3)	7/3.75	6/1/3.75 - 4/3/3.75	11.10 - 11.80	25	Black
NAA1325-1400	11	7/4.50		13.25 - 14.00	20	Green
NAA1325-1400-S*	11 (4&4&3)	7/4.50		13.25 - 14.00	20	Green
NAA1400-1490	11	7/4.75	6/4.75 + 7/1.60	14.00 - 14.90	20	Blue
NAA1605-1665	12	19/3.25		16.05 - 16.65	15	Orange
NAA1725-1790	12	19/3.50	30/7/2.50	17.25 - 17.90	15	Blue
NAA1790-1880	12	19/3.75		17.90 - 18.80	10	Black
NAA1790-1880-S*	12 (4&4&4)	19/3.75		17.90 - 18.80	10	Black
NAA2070-2150	11	37/3.00	30/7/3.00	20.70 - 21.50	5	Red
NAA2150-2305	12	37/3.25	30/7/3.25	21.50 - 23.05	10	Blue
NAA2360-2480	13	19/4.75	30/7/3.50	23.60 - 24.80	5	Purple/Blue
NAA2585-2630	12	37/3.75	54/7/3.00	25.85 - 26.30	5	Black
NAA2895-30.76	13	61/3.25	54/7/3.25	28.95 - 30.70	3	Red
NAA3070-3225	12	54/7/3.50		30.70 - 32.25	3	Purple

*Subset as shown

Rods are labelled, bundled in a set and taped at both ends

Copper Armour Rods

Armour Rods are designed to be used as protection against bending, compressive stresses, abrasion and arcing damage on conductors.

- Type NCA: Copper Armour rods for use on copper conductors



ORDERING INFORMATION

Catalogue Number	No. of Rods	Conductor Stranding	Conductor OD Range	Pack Quantity	Colour Code
NCA0600-0635	9	7/2.00	6.00 - 6.35	25	Yellow
NCA0800-0850	9	7/2.75	8.00 - 8.50	20	White
NCA0895-0945	10	7/3.00	8.95 - 9.45	15	Red
NCA1000-1065	10	19/2.00	10.00 - 10.65	10	Yellow
NCA1785-1870	13	37/1.03	17.85 - 18.70	5	Blue

Galvanised Steel Armour Rods

Armour Rods are designed to be used as protection against bending, compressive stresses, abrasion and arcing damage on conductors.

- Type NGA: Galvanised Steel Armour rods for use on SG/GZ conductors



ORDERING INFORMATION

Catalogue Number	No. of Rods	Conductor Stranding	Conductor OD Range	Pack Quantity	Colour Code
NGA0410-0440	8	3/2.00	4.10 - 4.40	50	Yellow
NGA0480-0600	9	7/2.00	4.80 - 6.00	50	Black/Yellow/White
NGA0785-0830	10	7/2.75	7.85 - 8.30	30	White
NGA0950-1025	11	7/3.25	9.50 - 10.25	20	Orange/Yellow
NGA1110-1180	12	7/3.75	11.10 - 11.80	20	Black

Rods are labelled, bundled in a set and taped at both ends

TE Connectivity (NYSE: TEL) is a \$14 billion global technology leader. Our connectivity and sensor solutions are essential in today's increasingly connected world. We collaborate with engineers to transform their concepts into creations - redefining what's possible using intelligent, efficient and high-performing TE products and solutions proven in harsh environments. Our 80,000 people, including 7,500 design engineers, partner with customers in over 150 countries across a wide range of industries. We believe EVERY CONNECTION COUNTS - te.com.

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