Micro64 Female Terminal

(Sealed Gold Female Terminal)

Terminal Crimp Guideline



Issued: 12 Mar. 2002

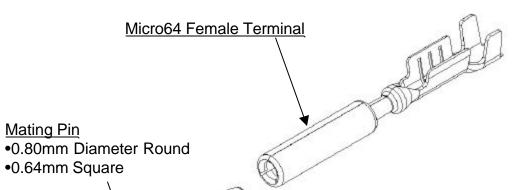
UNCONTROLLED DOCUMENT

-- Table of Contents --

	Page
1. General Information	3
- Part Number List	
2. Un-crimped Terminal Dimensions	4
3. Crimp Guideline	
- Recommended Crimp Dimensions	5-6
- Quality Check 1 – Terminal Straightness	7
- Quality Check 2 – Cable End-of-Core Length	8-9
4. Visual Product Standard	
- Terminal Assembly to Core (VPS-A66)	10-12
- Terminal Assembly to Insulation (VPS-A17)	13-14

General Information

Mating Pin



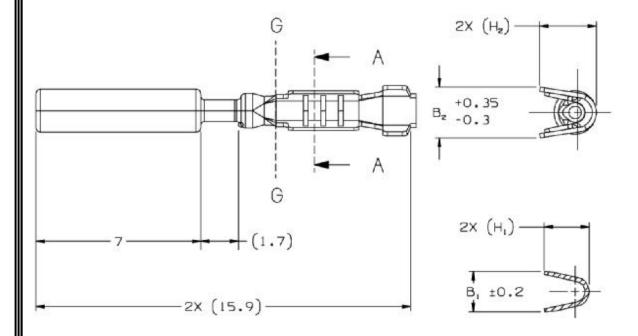
FEMALE TERMINALS

Terminal PN	Cable Range (mm²)	Material	Plating
15356826	0.35	Tin Brass	Gold
15356827	0.5 - 0.8	Tin Brass	Gold

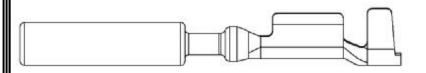
FEMALE SHORTING CLIP TERMINAL

Terminal PN	Cable Range (mm ²)	Material	Plating
15359541	0.5 - 0.8	Tin Brass	Gold

Un-crimped Terminal Dimensions

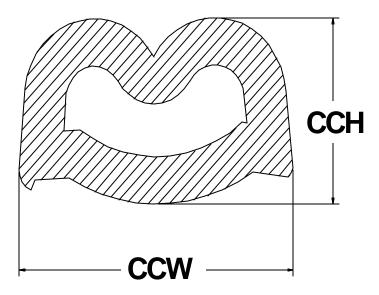


SECTION A - A TO G - G



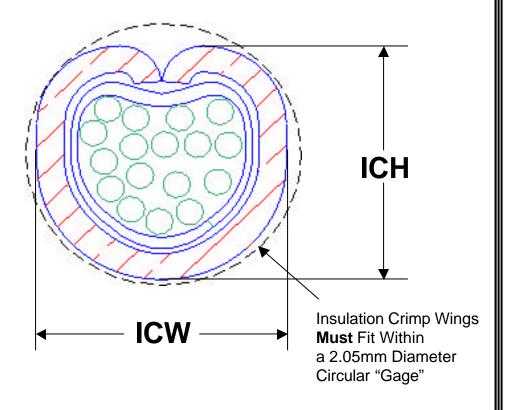
0.5 - 0.8	1.64-1.90	102	2.08	2.5	2.4	2.5
0.35	1.47-1.63	101	1.65	2.1	1.9	2.4
Cable Size (MM ²)	Cable O.D.	Crimp Type	B ₁	B ₂	H ₁	H ₂

Recommended Core Wing Crimped Dimensions



Typical Core Crimp

Recommended Insulation Wing Crimped Dimensions

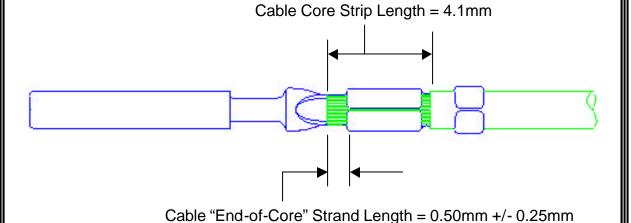


Recommended Crimp Dimensions

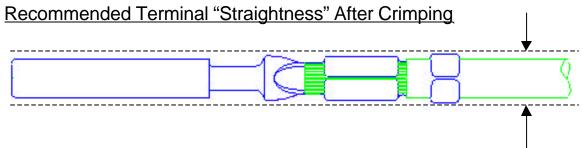
	Size	Size		e (mm)	Insulati	on (mm)
Terminal PN	(mm ²)	Cable Type	CCH (+/-0.05)	CCW (+0.1/-0.2)	ICH	ICW
		CAE hunghed hare conner	0.75	1.45	1.6	1.9
15356826	0.35	SAE bunched bare copper	0.75	1.45	1.0	1.9
10000020	0.00	SAE harddrawn bare copper	0.75	1.45	1.6	1.9
15356827	0.5	SAE bunched bare copper	0.95	1.45	1.9	2.0
15350627	0.5	SAE unbonded tin plated copper	0.95	1.45	1.9	2.0
10009041	0.8	SAE bunched bare copper	0.95	1.65	1.9	2.0

Note: Crimp dimensions shown above are reference values when using Delphi Packard crimp tool. These values are based on Delphi Packard Specification ESA 605 and are subject to change without notice. Please contact Delphi Packard Engineering for current ESA605 data. The actual method or specification of crimping should be determined by harness supplier. (As of March 2002)

Recommended Cable Strip Length and End-of-Core Length

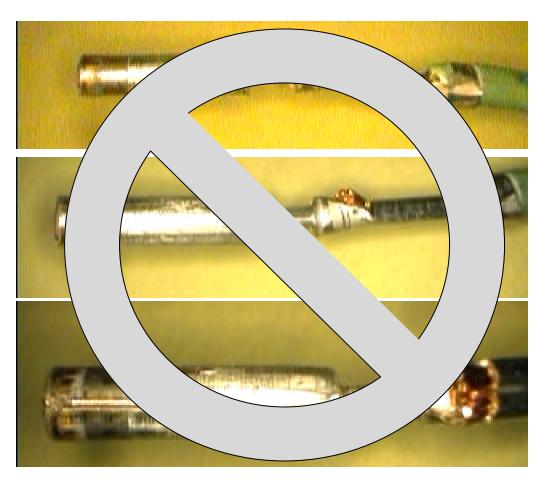


Quality Check 1 - Terminal Straightness

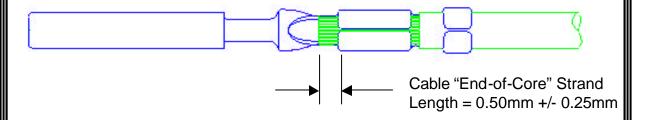


Terminal must fit a MAX. 2.10 Diameter Gage Hole 17.0mm Deep After Crimping

Examples of bent terminals

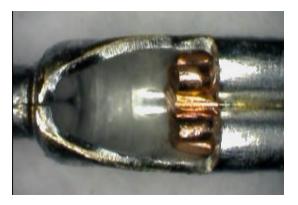


Quality Check 2 - Cable End-of-Core Length



Recommended Cable "End-of-Core" Strand Length = 0.50mm +/- 0.25mm. Excessive length can lead to "Core Flaring" and damage to the cable seals as shown in the following pictures.

Examples of Correct Cable "End-of-Core" Strand Length



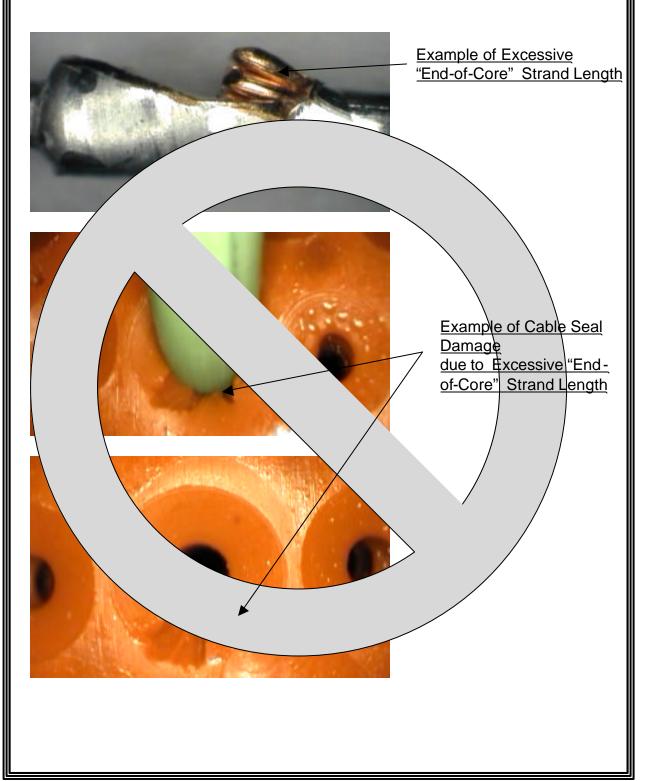


Examples of Incorrect Cable "End-of-Core" Strand Length



Quality Check 2 - Cable End-of-Core Length

Examples of Incorrect Cable "End-of-Core" Strand Length



TERMINAL ASSEMBLY TO CORE: MICRO 64

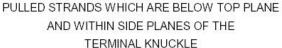
NOMINAL

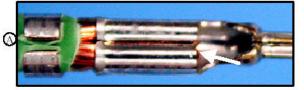


- STRANDS AND INSULATION VISIBLE IN THIS AREA
- ALL STRANDS CAPTURED WITHIN CORE WINGS. NO CUT OR MISSING STRANDS. NO STRANDS BONDED TO OUTSIDE OF CRIMP.
- · CABLE STRIPPED IN CONFORMANCE WITH VPS # A-7
- · CORE WING FLARE ONLY ON THE BOTTOM OF THE CORE CRIMP
- · CORE IS BELOW THE TOP PLANE AND WITHIN THE SIDE PLANES OF THE TERMINAL KNUCKLE.
- · NO GAP IN CORE WINGS

WITHIN TOLERANCE / SPECIFICATION







CORE FLUSH WITH TOP OF CORE WINGS



NO BOTTOM CORE WING FLARE (PASSES PULL TEST)

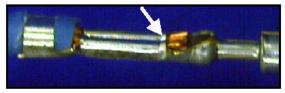
SHOULD BE CORRECTED AS THIS CONDITION BEGINS TO APPEAR UNLESS OTHERWISE INDICATED.

PRODUCT ENGINEERING	DATE APPROVED	REFERENCE SPECIFICATION
Ted Pushak / K.L.Weeks	7-17-00	ESA-605-A

TERMINAL ASSEMBLY TO CORE: MICRO 64



NONCONFORMANCE



CORE WING FLARE ON THE TOP OF THE CORE CRIMP



CORE EXTENDS BEYOND THE TOP PLANE OF THE TERMINAL KNUCKLE



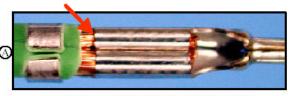
CORE EXTENDS BEYOND THE SIDE PLANE OF THE TERMINAL KNUCKLE



LOOSE STRAND OUT OF CORE CRIMP



DEFECTIVE CRIMP - UNEVENLY FORMED WINGS (FAILS PULL TEST)



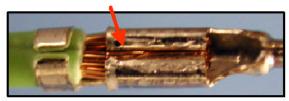
NO FLARE ON BOTTOM OF CORE WING (FAILS PULL TEST)

PRODUCT ENGINEERING	DATE APPROVED	REFERENCE SPECIFICATION
Ted Pushak / K.L.Weeks	7-17-00	ESA-605-A

TERMINAL ASSEMBLY TO CORE: MICRO 64



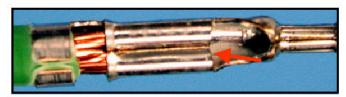
NONCONFORMANCE



GAP IN CORE WINGS



CUT OR MISSING STRAND, OR BONDED TO OUTSIDE OF CORE CRIMP

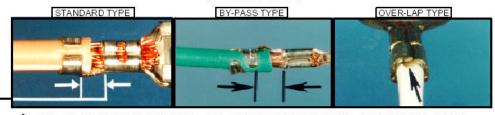


LOW CORE

PRODUCT ENGINEERING	DATE APPROVED	REFERENCE SPECIFICATION
Ted Pushak / K.L.Weeks	7-17-00	ESA-605-A

TERMINAL ASSEMBLY TO INSULATION

NOMINAL



➤ END OF INSULATION CENTERED AND STRANDS VISIBLE IN THIS AREA FOR ALL TYPES OF INSULATION CRIMPS

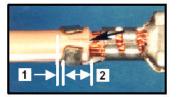
WITHIN TOLERANCE /SPECIFICATION



INSULATION CRIMP WINGS CONTACT THE INSULATION AT A MINIMUM OF 3 POINTS



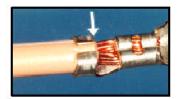
INSULATION NEAR CORE WINGS AND STRANDS ARE VISIBLE



INSULATION CUT ALONG CORE AXIS - CORE VISIBLE (NO SEVERED STRANDS)

1. 1.0 MM MAX. SPLIT (BATTERY CABLE - 2.0 MM MAX. SPLIT - CRIMP ONLY APPLICATION)

2. ANY LENGTH SPLIT



INSULATION FLUSH WITH TOP OF INSULATION WINGS



INSULATION CUT AROUND CIRCUMFERENCE OF CABLE - NO CORE VISIBLE

PRODUCT ENGINEERING	DATE APPROVED	REFERENCE SPECIFICATION
Rich Kollar / K.L.Weeks	10-4-99	ESA-605-A and ESA-605-B

SHEET 2 OF 2

TERMINAL ASSEMBLY TO INSULATION

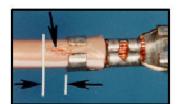
NONCONFORMANCE



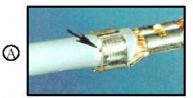
INSULATION UNDER CORE CRIMP (STRANDS NOT VISIBLE)



LOW INSULATION



INSULATION CUT ALONG CORE AXIS - BEYOND 1.0 MM OR CORE DAMAGED (BATTERY CABLE - BEYOND 2.0 MM OR CORE DAMAGED)



INSULATION CUT AROUND CIRCUMFERENCE OF CABLE - CORE VISIBLE

PRODUCT ENGINEERING	DATE APPROVED	REFERENCE SPECIFICATION
Rich Kollar / K.L.Weeks	10-4-99	ESA-605-A and ESA-605-B

	y minimum required information based on general use sonly the minimum required information.
your production and quali meet your requirements. T	ore using this product, be sure it is in conformity with ity assurance systems and its properties and features. The actual method or specification of this production ness supplier, but the condition for this production