

June 20, 2008

## TYCO ELECTRONICS ELECTRONIC DATA INTERCHANGE PLANNING GUIDE

PURCHASE ORDER (850) - 004010

# 850 Purchase Order

Functional Group ID=PO

### Introduction:

This standard provides for the format and establishes the data contents of a purchase order transaction set. The purchase order transaction set provides for customary and established business and industry practice relative to the placement of purchase orders for goods and services.

### Heading:

Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
010	ST	Transaction Set Header				
020	BEG	BEG Beginning Segment for Purchase				
030	CUR	Currency				
040	REF	Reference Numbers				
050	PER	Administrative Contact				
060	TAX	Tax Reference				
070	FOB	F.O.B. Instructions				
080	ITD	Terms of Sale/Deferred Terms of Sa				
090	DTM	Date/Time Reference				
100	TD5	Carrier Details (Routing Sequence/ Time)				
LOOP ID - N9						
110	N9	Reference Identification				
120	MSG	Message Text				
LOOP ID - N1						
130	N1	Name				
140	N2	Additional Name Information				
150	N3	Address Information				
160	N4	Geographic Location				
170	PER	Administrative Contact				

### Detail:

Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
LOOP ID - POC						
010	PO1	Line Item Details				
020	PID	Product/Item Description				
LOOP ID - SCH						
030	SCH	LINE ITEM SCHEDULE				

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LOOP ID - N9		
040	N9	Reference Identification
050	MSG	Message Text

## Summary:

Pos.	Seg.		Req.		Loop	Notes and
No.	ID	Name	Des.	Max. Use	Repeat	Comments
010	CTT	Transaction Totals				
020	SE	Transaction Set Trailer				

## ABOUT THIS DOCUMENT:

- FORMAT:** 1. This document depicts Purchase Orders generated from Tyco Electronics. Only the fields TYCO will transmit are listed. The "RQMT" (Requirement) column indicates an 'R' when TYCO will always populate that field. (If the segment level has an 'R', then that segment will always be provided, and fields within it which will always be populated have an 'R'. If the segment level does not have an \*, that segment will be optional. When it is provided, the fields with '\*' will always be populated.)
2. Interpretation in parentheses following values are either TYCO Procurement Organization's interpretation or directly from ANSI.

**SAMPLE:** 1. Sample Purchase Orders follow the Notes section.

FIELD	RQMT	DESCRIPTION	VALUES	NOTES
<b>ST TRANSACTION SET HEADER</b>				
ST01	R	TRANSACTION SET ID	'850'	
ST02	R	TRANSACTION SET CONTRL NUM		
<b>BEG PO BEGINNING SEGMENT</b>				
BEG01	R	TRANSACTION SET PURPOSE	'00'=Original	
BEG02	R	PURCHASE ORDER TYPE	'SA'=Standalone; 'BL'= Scheduling Agreement	1
BEG03	R	PURCHASE ORDER NUMBER		
BEG04		RELEASE NUMBER		
BEG05	R	PURCHASE ORDER DATE		
BEG06		CONTRACT NUMBER		
<b>CUR CURRENCY</b>				
CUR01	*	IDENTIFIER CODE	'BY' = BUYING PARTY	
CUR02	*	CURRENCY CODE		
<b>REF REFERENCE NUMBERS</b>				
REF01	*	REFERENCE ID QUALIFIER	'GP' = Government priority 'SD' = Sales Division	
REF02	*	REFERENCE NUMBER		
<b>PER ADMINISTRATIVE COMM</b>				
PER01	*	CONTACT FUNCTION CODE	'CW'=Confirmed With	
PER02	*	NAME		
PER03	*	COMM NUMBER QUALIFIER	'TE'=Telephone	
PER04	*	COMMUNICATIONS NUMBER		

# TYCO ELECTRONICS

FIELD	RQMT	DESCRIPTION	VALUES	NOTES
TAX		TAX REFERENCE		
TAX01	*	TAX ID NUMBER	Provided when tax exempt	
TAX12	*	TAX EXEMPT CODE	'1'= Tax exempt	
FOB		FOB RELATED INSTRUCTIONS		
FOB01	*	SHIPMENT METHOD OF PAYMENT	'CC'=Collect 'PP'=Prepaid by Seller 'ZZ'= Mutually Defined (See FOB03)	
FOB02	*	LOCATION QUALIFIER	'BS'=Place of Business 'DE'= Destination (Shipping) 'OR'= Origin (Shipping Point)	
FOB03	*	DESCRIPTION		
FOB06	*	LOCATION QUALIFIER	'OR'=Origin	
ITD		TERMS OF SALE		
ITD01	R	TERMS TYPE CODE	'01'=Basic	
ITD02	R	TERMS BASIS DATE CODE	'3'=Invoice Date '5'=Invoice Receipt Date	
ITD03		TERMS DISCOUNT PERCENT		
ITD05	*	TERMS DISCOUNT DUE DAYS		
ITD07	*	TERMS NET DAYS		
ITD10		DEFERRED AMOUNT DUE		
ITD11		PERCENT OF INVOICE PAYABLE		
ITD12	*	DESCRIPTION		
DTM		DATE		
DTM01	*	DATE/TIME QUALIFIER	'055' = CONFIRMED DATE	
DTM02	*	DATE		
TD5		CARRIER		
TD501	*	ROUTING SEQUENCE CODE	'O' = ORIGIN	
TD502	*	IDENTIFICATION CODE QUALIER	'2' = SCAC (Standard Carrier Alpha Code)	
TD503	*	ID CODE (SCAC CODE)		
TD504	*	TRANSPORTATION TYPE CODE		
TD505	*	ROUTING		
N9		REFERENCE IDENTIFICATION		
N901	*	REFERENCE ID QUALIFIER	'L1' = Letters / Notes	
N903	*	REFERENCE NOTE		
MSG		MESSAGE		
MSG01	*	FREE-FORM MESSAGE/TEXT		
MSG02		CARRIAGE CONTROL CODE		
MSG03		NUMBER		
N1		NAME		
N101	*	ENTITY IDENTIFIER CODE	'BY'=BUYER	
N102		NAME	'TYCO ELECTRONICS'	
N103	*	IDENTIFICATION CODE QUALIFIER	'92'	
N104	*	IDENTIFICATION CODE		
PER		ADMINISTRATIVE COMM		
PER01	*	CONTACT FUNCTION CODE	'BD'= BUYER NAME/DEPARTMENT	

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<u>FIELD</u>	<u>RQMT</u>	<u>DESCRIPTION</u>	<u>VALUES</u>	<u>NOTES</u>
PER02	*	NAME		
PER03	*	COMM NUMBER QUALIFIER	'TE'=TELEPHONE	
PER04	*	COMMUNICATIONS NUMBER		

<b>N1</b>		<b>NAME</b>		
N101	*	ENTITY IDENTIFIER CODE	'SE'= SELLING PARTY	
N102	*	NAME		
N103	*	IDENTIFICATION CODE QUALIFIER		
N104	*	IDENTIFICATION CODE		2

<b>N2:4</b>		<b>ADDITIONAL NAME</b>		
N201	*	NAME		
N202		NAME		

<b>N3</b>		<b>ADDRESS INFORMATION</b>		
N301	*	ADDRESS INFORMATION		
N302		ADDRESS INFORMATION		

<b>N4</b>		<b>GEOGRAPHIC LOCATION</b>		
N401	*	CITY NAME		
N402	*	STATE OR PROVINCE		
N403	*	POSTAL CODE		
N404	*	COUNTRY CODE		

<b>PER</b>		<b>ADMINISTRATIVE COMM</b>		
PER01	*	CONTACT FUNCTION CODE	'SU'= SUPPLIER CONTACT	
PER02	*	NAME		
PER03	*	COMM NUMBER QUALIFIER	'TE'=TELEPHONE	
PER04	*	COMMUNICATIONS NUMBER		

<b>N1</b>		<b>NAME</b>		
N101	*	ENTITY IDENTIFIER CODE	'BT'= BILL-TO	
N102	*	NAME	'TYCO ELECTRONICS'	
N103	*	IDENTIFICATION CODE QUALIFIER	'92'	
N104	*	IDENTIFICATION CODE		

<b>PER</b>		<b>ADMINISTRATIVE COMM</b>		
PER01	*	CONTACT FUNCTION CODE	'BI'= BILLING INQUIRY CONTACT	
PER02	*	NAME		
PER03	*	COMM NUMBER QUALIFIER	'TE'=TELEPHONE	
PER04	*	COMMUNICATIONS NUMBER		

<b>N1</b>		<b>NAME</b>		
N101	*	ENTITY IDENTIFIER CODE	'ST'= SHIP-TO	
N102	*	NAME	'TYCO ELECTRONICS'	
N103	*	IDENTIFICATION CODE QUALIFIER	'92'	
N104	*	IDENTIFICATION CODE		3

<b>N2:4</b>		<b>ADDITIONAL NAME</b>		
N201	*	NAME		
N202		NAME		

<b>N3</b>		<b>ADDRESS INFORMATION</b>		
N301	*	ADDRESS INFORMATION		

# TYCO ELECTRONICS

<u>FIELD</u>	<u>RQMT</u>	<u>DESCRIPTION</u>	<u>VALUES</u>	<u>NOTES</u>
N302	*	ADDRESS INFORMATION		
<b>N4</b>		<b>GEOGRAPHIC LOCATION</b>		
N401	*	CITY NAME		
N402	*	STATE OR PROVINCE		
N403	*	POSTAL CODE		
N404	*	COUNTRY CODE		
<b>PO1</b>	<b>R</b>	<b>PURCHASE ORDER BASELINE ITEM</b>		
PO101	<b>R</b>	ASSIGNED IDENTIFICATION		PO Line Item Number
PO102	<b>R</b>	QUANTITY ORDERED		
PO103	<b>R</b>	UNIT OF MEASUREMENT CODE		
PO104	*	UNIT PRICE		
PO105	<b>R</b>	BASIS OF UNIT PRICE		'TE' =Each
PO106	<b>R</b>	PRODUCT/SERVICE ID QUAL		'BP'=TYCO Part Number 4
PO107	<b>R</b>	PRODUCT/SERVICE ID		
PO108	<b>R</b>	PRODUCT/SERVICE ID QUAL		'VP'=Vendor Part Number
PO109	<b>R</b>	PRODUCT/SERVICE ID		
PO110	*	PRODUCT/SERVICE ID QUAL		'DR'=Drawing Revision Number 4
PO111	*	PRODUCT/SERVICE ID		
<b>PID</b>	<b>R</b>	<b>PRODUCT/ITEM DESCRIPTION</b>		
PID01	<b>R</b>	ITEM DESC TYPE		'F'=Free Form
PID02		PROD/PROCESS CHAR CODE		
PID03		AGENCY QUALIFIER CODE		
PID04		PRODUCT DESC CODE		
PID05	<b>R</b>	DESCRIPTION		
<b>SCH</b>		<b>LINE ITEM SCHEDULE</b>		
SCH01	*	QUANTITY		
SCH02	*	UNIT OF MEASURE CODE		
SCH05	*	DATE/TIME QUALIFIER		'002'=Delivery Requested on This Date/Time '001'=Shipment Requested on this Date/Time YYMMDD
SCH06	*	DATE		
SCH07		TIME		
<b>N9</b>		<b>REFERENCE IDENTIFICATION</b>		
N901	*	REFERENCE ID QUALIFIER		'L1' = Letters / Notes
N903	*	REFERENCE NOTE		
<b>MSG</b>		<b>MESSAGE TEXT</b>		
MSG01	*	FREE-FORM FORM MESSAGE/TEXT		
MSG02		CARRIAGE CONTROL CODE		
MSG03		NUMBER		
<b>CTT</b>	<b>R</b>	<b>TRANSACTION TOTALS</b>		
CTT01	<b>R</b>	NUMBER OF LINE ITEMS		
CTT02		HASH TOTAL		
<b>SE</b>	<b>R</b>	<b>TRANSACTION SET TRAILER</b>		
SE01	<b>R</b>	NUMBER OF INCLUDED SEGMENTS		
SE02	<b>R</b>	TRANSACTION SET CONTROL NUMBER		

# TYCO ELECTRONICS

## **NOTES**

1. Please note whenever BEG02 is populated with "BL", a supplying partner is NOT expected to ship against the target total quantity provided in PO102, nor is the supplier expected to provide a return electronic acknowledgement (855). The 997 functional acknowledgement, of course, is always required. The "BL" 850 document will not contain SCH segments. The supplier is expected to ship against the purchasing document number specified in the BL 850 whenever a separate ship action release quantity is issued via fax or email.
2. When N101 value = SE, N104 value is the SAP identification Code for TYCO supplier, a.k.a. Supplier ID. This Supplier ID is a mandatory field to be sent on returned documents including 855, 856, and 810 data. The N101 qualifier will be VN on the returned documents. The SAP id code will be provided to you by a Tyco Electronics contact.
3. When N101 value =ST, N104 value is Identification Code for internal TYCO plant identifiers.  
Refer to Business Partners/Suppliers at web site <http://supplierportal.tycoelectronics.com/> for the most recent listing of plant identifiers and shipping addresses.  
Note: All N2 segments and fields should be activated to ensure all lines of ship-to address are received.
4. Values for the base Unit Pricing code include:  
"PE" - Per each                      "HP" - Price per Hundred                      "TP" – Price per Thousand

Purchase orders for services or materials ordered for new product introduction may not have a part number. When this occurs, PO106 will be populated with PN and PO107 will reflect 0-0000000-0.

PO110 for Drawing Revision Number is associated with PO106 Product ID; is not always applicable.

# TYCO ELECTRONICS

Please Note in Samples that follow an '\*' or '~' is used for the Data Element Separator. This is for readability only. The actual values should be obtained from Interchange Header fields. In the first example, PO1 line 3 has no part number, so there are no PID segments with description / barcode information.

Purchase orders for services or materials ordered for new product introduction may not have a part number

## SAMPLE – PURCHASE ORDER SHIPPING TO Tyco Electronics

ISA\*00\* \*00\* \*01\*009125527 \*12\*YOUR-ID- \*080814\*1236\*U\*00400\*000000035\*0\*P\* |  
GS\*PO\*009125527ELE\*YOUR-ID-\*20080814\*1236\*27\*X\*004010  
ST\*850\*0001  
BEG\*00\*SA\*2470480314\*\*20080814  
CUR\*BY\*USD  
FOB\*CC\*OR\*HARRISBURG, PA\*\*\*OR  
ITD\*01\*3\*\*\*10\*\*10\*\*\*\*\*NET 30 DAYS  
DTM\*055\*20080814  
TD5\*\*2\*UPSN\*U\*IF LESS THAN 300 LBS  
TD5\*\*2\*EXLA\*U\*IF GREATER THAN 300 LBS  
N9\*L1\*\*HDR Messages & Notes  
MSG\*1. Accountancy address  
MSG\*TYCO ELECTRONICS  
MSG\*PO BOX 69008  
MSG\*HARRISBURG, PA 17106-9008  
MSG\*2. P.O. Number must be shown on all packing lists & invoices &  
MSG\*communications etc.  
MSG\*3. Packing List must accompany shipment.  
MSG\*4. All changes to this order must be authorized by the Buyer and  
MSG\*confirmed by Change Order.  
MSG\*PURCHASE ORDER CONDITIONS: In accepting this order, it is understood  
MSG\*that the Seller agrees to the terms and conditions shown as set forth  
MSG\*at<https://supplierportal.tycoelectronics.com> (found within Document  
MSG\*Repository). These Tyco Electronics Purchase Conditions specifically  
MSG\*take precedence over deviating sales and delivery conditions of Seller.  
MSG\*r.  
N1\*BY\*TYCO ELECTRONICS\*92\*US01  
PER\*BD\*US-JOHN BREHM  
N1\*SE\*SUPPLIER COMPANY NAME\*92\*0000140011  
N4\*MILWAUKEE  
N1\*ST\*TE Connectors  
N2\*Tyco Elec. A&D Greenfield Rapheo  
N3\*1816 Olde Homestead Lane  
N4\*LANCASTER\*PA\*17601  
PO1\*00001\*2000\*PC\*0\*PE\*BP\*174910-2\*VP\*111-222-3434\*DR\*B  
PID\*F\*\*\*\*\*040 MLC PLUG HSG 20P  
SCH\*1000\*PC\*\*\*002\*20081028  
SCH\*950\*PC\*\*\*002\*20081105  
SCH\*50\*PC\*\*\*002\*20081111  
N9\*L1\*\*DTL Messages & Notes  
MSG\*CONTRACT NUMBER: 7893789110 DPAS RATING: DOA7  
MSG\*This is a gov't rated DX order. If the US is in time of war  
MSG\*efforts will be placed on getting this product out to Tyco.  
CTT\*1\*2000  
SE\*41\*0001  
GE\*1\*27  
IEA\*1\*000000035

# TYCO ELECTRONICS

SAMPLE – PURCHASE ORDER SHIPPING TO Tyco Electronics  
NO TYCO PART NUMBER

ISA\*00\*        \*00\*        \*01\*009125527    \*ZZ\* YOUR-ID- \*080815\*0856\*U\*00400\*000000008\*0\*P\*|  
GS\*PO\*009125527ELE\* YOUR-ID-\*20080815\*0856\*6\*X\*004010  
ST\*850\*0001  
BEG\*00\*SA\*2470480368\*\*20080815  
CUR\*BY\*USD  
PER\*CW\* John Brehm\*TE\*717-936-6320  
FOB\*CC\*OR\*PORT WASHINGTON, NY  
ITD\*01\*3\*\*\*40\*\*40\*\*\*\*\*NET 40 DAYS  
DTM\*055\*20080815  
TD5\*\*2\*UPSN\*U\*IF LESS THAN 300 LBS  
TD5\*\*2\*EXLA\*U\*IF GREATER THAN 300 LBS  
N9\*L1\*\*HDR Messages & Notes  
MSG\*FREIGHT COLLECT  
N1\*BY\*TYCO ELECTRONICS\*92\*US01  
PER\*BD\*US - John Brehm  
N1\*SE\* SUPPLIER COMPANY NAME \*92\*0000360011  
PER\*SU\*CHRISTINE SUPPLIER\*TE\*516-519-0011  
N1\*ST\*TE Connectors  
N2\*Tyco Elec. A&D Greenfield, Rapho, R  
N3\*1816 Olde Homestead Lane  
N4\*LANCASTER\*PA\*17601  
PO1\*00001\*100\*PC\*0\*PE\*BP\*0-0000000-0  
PID\*F\*\*\*\*EDI Test PO – NO PART NUMBER  
SCH\*100\*PC\*\*\*002\*20080828  
CTT\*1\*100  
SE\*22\*0001  
GE\*1\*6  
IEA\*1\*000000008



# TYCO ELECTRONICS

## SAMPLE – PURCHASE ORDER for BLANKET ORDER

ST\*850\*12345~  
BEG\*00\*BL\*2550012345\*\*20080412~  
CUR\*BY\*USD  
REF\*SD\*TYCO1204~~  
TAX\*1-58-2554226-7\*\*\*\*\*1~  
FOB\*CC\*OR\*ORIGIN or PORT OF EXPORT~  
ITD\*01\*5\*2\*\*10\*\*60~  
TD5\*O\*2\*00\*X~  
N9\*L1\*\*HDR Messages & Notes  
MSG\*1. Send invoice to address below unless otherwise noted in~  
MSG\*the order:~  
MSG\*Tyco Electronics~  
MSG\*P.O. Box 69009, Harrisburg, PA 17106-9009~  
N1\*SE\*\*92\*0000383378~  
N1\*BT\*TYCO ELECTRONICS\*92\*5302~  
N3\*P.O. BOX 69009~  
N4\*HARRISBURG\*PA\*171069009~  
PER\*BD\*T. W. BUYER\*TE\*972-284-2003~  
PER\*EX\*Accounts Payable\*TE\*717-986-7653~  
PER\*EX\*T. W. EXPEDITER\*TE\*956-547-2004~  
N1\*ST\*TYCO ELECTRONICS\*92\*5302~  
N2\* C/O UPS SCS ~  
N3\*2800 FULLING MILL ROAD~  
N4\*HARRISBURG\*PA\*17112\*US~  
PO1\*00001\*100000\*PC\*158.210000\*TE\*BP\*108123456\*VP\*12345-6\*DR\*2~  
PID\*F\*\*\*GREEN WIDGET~  
PID\*F\*\*\*\*2550012345~  
MSG\*GEN\*+++ TYCO ELECTRONICS TEST ORDER – DO NOT PROCESS +++~  
CTT\*1~  
SE\*27\*12345~