

832 Price Sales Catalog

This standard provides the format and establishes the data contents of a price/sales catalog transaction set. The price/sales catalog transaction set provides for customary and established business and industry practice relative to furnishing or requesting the price of goods or services in the form of a catalog.

Table 1

PAGE #	POS. #	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
91	010	ST	Transaction Set Header	M	1	
92	020	BCT	Beginning Segment for Price/Sales Catalog	M	1	
94	030	NTE	Note/Special Instruction	F	100	
95	040	CTP	Pricing Information	O	25	
98	050	REF	Reference Numbers	O	12	
N/U	060	PER	Administrative Communications Contact	O	3	
99	070	DTM	Date/Time Reference	O	10	
N/U	080	CTB	Restrictions/ Conditions	O	25	
100	090	CUR	Currency	O	5	
N/U	100	SSS	Special Services	O	25	
N/U	110	ITD	Terms of Sale/Deferred Terms of Sale	O	2	
N/U	120	LDT	Lead Time	O	>1	
103	130	ITA	Allowance, Charge or Service	O	5	
N/U	140	FOB	F.O.B. Related Instructions	O	1	
LOOP ID - N1						200
106	150	N1	Name	O	1	
N/U	160	N2	Additional Name Information	O	2	
N/U	170	N3	Address Information	O	2	
N/U	180	N4	Geographic Location	O	1	
N/U	190	REF	Reference Numbers	O	12	
108	200	PER	Administrative Communications Contact	O	3	

Table 2

PAGE #	POS. #	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
LOOP ID - LIN						700000
109	010	LIN	Item Identification	O	1	
N/U	020	SLN	Subline Item Detail	O	100	
N/U	030	DTM	Date/Time Reference	O	10	
111	040	REF	Reference Numbers	O	12	
N/U	050	PER	Administrative Communications Contact	O	3	
N/U	060	CTB	Restrictions/ Conditions	O	25	
N/U	070	PID	Product/Item Description	O	200	
N/U	080	MEA	Measurements	O	40	
N/U	090	PKG	Marking, Packaging, Loading	O	25	
N/U	100	PO4	Item Physical Details	O	1	
N/U	110	TD4	Carrier Details (Special Handling/Hazardous Materials)	O	1	
N/U	120	SSS	Special Services	O	25	
N/U	130	ITD	Terms of Sale/Deferred Terms of Sale	O	2	
N/U	140	LDT	Lead Time	O	1	
112	150	ITA	Allowance, Charge or Service	O	5	

N/U	160	FOB	F.O.B. Related Instructions	O	1	
			LOOP ID - LIN/CTP			25
115	170	CTP	Pricing Information	O	1	
118	180	DTM	Date/Time Reference	O	10	
N/U	190	LDT	Lead Time	O	1	
119	200	CUR	Currency	O	5	
122	210	PO4	Item Physical Details	O	1	
N/U	220	CTB	Restrictions/ Conditions	O	5	
			LOOP ID - LIN/N1			200
124	230	N1	Name	O	1	
N/U	240	N2	Additional Name Information	O	2	
N/U	250	N3	Address Information	O	2	
N/U	260	N4	Geographic Location	O	1	
N/U	270	REF	Reference Numbers	O	12	
N/U	280	PER	Administrative Communications Contact	O	3	

Table 3

PAGE #	POS. #	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
125	010	CTT	Transaction Totals	M	1	
126	020	SE	Transaction Set Trailer	M	1	

SEGMENT: **ST** Transaction Set Header
 LEVEL: Header
 LOOP: _____
 USAGE: Mandatory
 MAX USE: 1
 PURPOSE: To indicate the start of a transaction set and to assign a control number
 COMMENTS: **A** The transaction set identifier (ST01) is intended for use by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the invoice transaction set).

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set.	M ID 3/3
832 X12.13 Price/Sales Catalog			
ST02	329	Transaction Set Control Number Identifying control number assigned by the originator for a transaction set.	M AN 4/9

SEGMENT: **BCT** Beginning Segment for Price/Sales Catalog
 LEVEL: Header
 LOOP: _____
 USAGE: Mandatory
 MAX USE: 1
 PURPOSE: To indicate the beginning of the price/sales catalog transaction set and to specify catalog purpose and number information.
 NOTES: **The BCT segment is used to indicate a Price Notification Identifier, an identifier assigned to a price notification issued by the notifying party. This assists in the identification of a price notification and provides for a method of document control.**

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
BCT01	683	Catalog Purpose Code Code indicating purpose of catalog.	M ID 2/2
Business Requirement: Notification Type (#11)			
Use to indicate the notification type - a code specifying if the message is a price notification or a tax notification.			
TN Tax Notification (ASC X12 Data Maintenance request submitted)			
PC Price Catalog			
BCT02	684	Catalog Number Identifying number for catalog or superseded catalog.	M AN 1/15
User defined. Default to "X".			
BCT03	685	Catalog Version Number Identifying version number of catalog or superseded catalog.	O AN 1/15
Business Requirement: Price Notification Identifier (#10) and Previous Price Notification Identifier (#15)			
Use of this data element is recommended when code "05 — Replace" is used in BCT10.			
BCT04	686	Catalog Revision Number Identifying revision number of catalog or superseded catalog.	O AN 1/6
Not Recommended by AVNET			
BCT05	355	Unit of Measurement Code Code identifying the basic unit of measurement.	O ID 2/2
Not Recommended by AVNET			

BCT06	684	Catalog Number Identifying number for catalog or superseded catalog.	O AN 1/15
Not Recommended by AVNET			
BCT07	685	Catalog Version Number Identifying version number of catalog or superseded catalog.	O AN 1/15
Not Recommended by AVNET			
BCT08	686	Catalog Revision Number Identifying revision number of catalog or superseded catalog.	O AN 1/6
Not Recommended by AVNET			
BCT09	352	Description A free-form description to clarify the related data elements and their content.	O AN 1/80
Not Recommended by AVNET			
BCT10	353	Transaction Set Purpose Code Code identifying purpose of transaction set.	O ID 2/2
Recommended by AVNET			
Business Requirement: Transaction Type (#18)			
Use to indicate the transaction type, which identifies whether the document is an original, cancellation, replacement or re-issue (copy).			
00 Original			
01 Cancellation			
05 Replace			
If this code is used, the use of BCT03 is recommended to indicate the previous price notification identifier, which identifies a previously sent notification. This is used for the referencing and sequencing of price notifications.			
07 Duplicate			
Re-issue			

SEGMENT: **NTE** Note/Special Instruction
 LEVEL: Header
 LOOP: _____
 USAGE: Floating
 MAX USE: 100
 PURPOSE: To transmit information in a free-form format, if necessary, for comment or special instruction
 COMMENTS: **A** The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the "NTE" segment should therefore be avoided, if at all possible, in an automated environment.
 NOTES: **The NTE segment is used for free-form descriptions/textual messages to clarify price notifications.**

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
NTE01	363	Note Reference Code Code identifying the functional area or purpose for which the note applies.	O ID 3/3
		CHG Change	
		PRI Priority	
		TRF Tariff Rate Footnotes	
NTE02	3	Free Form Message Free-form text.	M AN 1/60
		Business Requirement: Free Text (#122)	

SEGMENT: **CTP** Pricing Information
 LEVEL: Header
 LOOP: _____
 USAGE: Optional
 MAX USE: 25
 PURPOSE: To specify pricing information
 SYNTAX: 1 If CTP02 is present, then CTP03 is required.
 2 If CTP04 is present, then CTP05 is required.
 3 If CTP06 is present, then CTP07 is required.
 COMMENTS: A Example of use of CTP03 and CTP04.

PRICE	QUANTITY RANGE
1.00	0 to 999
0.75	1000 to 4999
0.50	5000 to 9999
0.25	10000 and above

CTP03	CTP04
1.00	0
0.75	1000
0.50	5000
0.25	10000

B Example of use of CTP03, CTP04 and CTP07.

CTP03	CTP04	CTP07
1.00	0	0.90
0.75	1000	0.90
0.50	5000	0.90
0.25	10000	0.90

C CTP07 is a multiplier factor to arrive at a final discounted price.
 A multiplier of 90 would be the factor if a 10% discount is given.

NOTES: **The CTP segment is recommended by AVNET at the detail level. The CTP segment in the header pertains to the entire transaction set. The CTP segment in the detail is used for exceptions and overrides the CTP in the header level.**

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
CTP01	687	Class of Trade Code Code indicating class of trade.	O ID 2/2

Not Recommended by AVNET

CTP02	236	<p>Price Qualifier Code identifying pricing specification.</p> <p>Recommended by AVNET</p> <p>CHG Changed Price Business Requirement: Difference in Price (#102)</p> <p>CON Contract Price Business Requirement: Old Price (#104)</p> <p>QTE Quote Price Business Requirement: New Price (#103)</p>	O ID 3/3
CTP03	212	<p>Unit Price Price per unit of product, service, commodity, etc.</p> <p>Required by AVNET</p> <p>Business Requirement: Price Type (#106). CTP03 can be used in conjunction with ITA06 - ATA09 if the price being identified is expressed as a percentage or value.</p>	C R 1/14
CTP04	380	<p>Quantity Numeric value of quantity.</p> <p>Business Requirement: Priced Quantity (#53)</p> <p>Use to indicate the quantity expressed in the pricing unit of measure when the price determination is related to a specific quantity.</p> <p>Business Requirement: Priced Quantity Qualifier (#54) The Price Quantity Qualifier is implicit in the use of the CTP segment as outlined in Example A under the segment description.</p>	O R 1/10
CTP05	355	<p>Unit of Measurement Code Code identifying the basic unit of measurement.</p> <p>Business Requirement: Pricing Unit of Measure (#55)</p> <p>Use to define the unit to which the unit price applies. Required for price determination.</p> <p>See Appendix C for ASC X12 Unit of Measurement Code list.</p>	C ID 2/2
CTP06	648	<p>Price Multiplier Qualifier Code indicating the type of price multiplier.</p> <p>Not Recommended by AVNET</p>	O ID 3/3

CTP07 649 Multiplier C R 1/10

Value, identified by price multiplier qualifier, to be used to multiply price to obtain a new value.

Not Recommended by AVNET

Business Requirement: Price Qualifier (#105)

An ASC X12 Data Maintenance request has been submitted to create a new data element and add it to the end of the CTP segment.

The DM requests:
an ID-type element, min=2, max=2
a name of "Price Basis"
a definition of "Code identifying the basis of the price"
the following new codes, 1=Carnet, 2=Posted, 3=Contract, 4=Formula

This new element, recommended by AVNET, is used as a price qualifier to identify the pricing category used to describe the base price.

SEGMENT: **REF** Reference Numbers

LEVEL: Header

LOOP: _____

USAGE: Optional

MAX USE: 12

PURPOSE: To specify identifying numbers.

SYNTAX: 1 Either REF02 or REF03 is required.

NOTES: **The RFF segment is recommended by AVNET at the detail level. The RFF segment in the header pertains to the entire message. The RFF segment in the detail is used for exceptions and overrides the REF in the header level.**

The REF segment is used to identify

- 1 the Contract Line Item Number, a reference which identifies a price or component thereof contained in an agreement and serves to facilitate the identification of the item being priced (use code "C7"), and**
- 2 the Contract Reference, which identifies the agreement under which the product/service is provided and serves to assist in the identification of the agreement (use code "CT").**

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
REF01	128	Reference Number Qualifier Code qualifying the Reference Number.	M ID 2/2
		C7 Contract Line Item Number Business Requirement: Contract Line Item Number (#3)	
		CT Contract Number Business Requirement: Contract Reference (#4)	
REF02	127	Reference Number Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	C AN 1/30
REF03	352	Description A free-form description to clarify the related data elements and their content.	C AN 1/80

SEGMENT: **DTM** Date/Time Reference
 LEVEL: Header
 LOOP: _____
 USAGE: Optional
 MAX USE: 10
 PURPOSE: To specify pertinent dates and times
 SYNTAX: 1 At least one of DTM02 or DTM03 must be present.

NOTES: **The DTM segment in the header is used to indicate the Price Notification Date - the date (and time) on which a notification was created. This assists in the identification of a price notification, and may provide a date for the beginning of a response period of a price notification.**

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time.	M ID 3/3
097 Transaction Creation Business Requirement: Price Notification Date (#74)			
DTM02	373	Date Date (YYMMDD).	C DT 6/6
Recommended by AVNET			
DTM03	337	Time Time expressed in 24-hour clock time (HHMM, time range: 0000 through 2359).	C TM 4/4
DTM04	623	Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time. Since + is a restricted character, + and - are substituted by P and M in the codes that follow.	O ID 2/2

SEGMENT: **CUR** Currency

LEVEL: Header

LOOP: _____

USAGE: Optional

MAX USE: 5

PURPOSE: To specify the currency (dollars, pounds, francs, etc.) used in a transaction

- SYNTAX:
- 1 If CUR08 is present, then CUR07 is required.
 - 2 If CUR09 is present, then CUR07 is required.
 - 3 If CUR11 is present, then CUR10 is required.
 - 4 If CUR12 is present, then CUR10 is required.
 - 5 If CUR14 is present, then CUR13 is required.
 - 6 If CUR15 is present, then CUR13 is required.
 - 7 If CUR17 is present, then CUR16 is required.
 - 8 If CUR18 is present, then CUR16 is required.
 - 9 If CUR20 is present, then CUR19 is required.
 - 10 If CUR21 is present, then CUR19 is required.

COMMENTS: **A** Monetary values are assumed to be expressed in the currency of the country of the transaction originator unless the optional CUR segment is used to specify a different currency. The CUR segment also permits the transaction originator to indicate a specific exchange rate, foreign exchange location and date/time as the basis for a currency conversion. Example 1. Assuming the currency of the transaction originator is U.S. dollars, the following CUR segment, when used in the heading area of a transaction, would indicate that all monetary values appearing in the transaction are expressed in Canadian Dollars (CAD). (In this example the exchange rate is at the discretion of the receiver).

CUR*BY*CAD* N/L

Example 2. Assuming the currency of the transaction originator is U.S. dollars, the following CUR segment, when used in the detail area of a transaction, describes a currency conversion for that particular item from U.S. dollars to Canadian dollars. It also indicates that a specific exchange rate, at a specified foreign exchange location on a given date/time be used as the basis for the currency conversion. Notes below the diagram describe the meaning of the element values.

B CUR*BY*USD*1.20*SE*CAD*NY*007*840821*1400 N/L
1 2 3 4

1. Identifies the buyer's (BY) currency as U.S. dollars (USD).
2. The multiplier (1.20) is the exchange rate factor for the conversion.

3. Identifies the seller's (SE) currency as Canadian dollars (CAD).

4. Indicates the basis for the exchange rate as the New York Foreign Exchange (NY) and the effective date/time (007) as August 21, 1984 (840821) at 2:00 P.M. (1400).

The value for this item is to be converted to Canadian dollars (CAD) at the exchange rate of 1.20, based on the New York Foreign Exchange (NY) at 2:00 P.M. (1400) on August 21, 1984. The actual unit price conversion for the item would be: The unit price value 7.50 (U.S. dollars) multiplied by the exchange rate (1.20) equals 9.00 Canadian dollars (7.50 X 1.20 = 9.00) CUR07 through CUR21 provide for five (5) dates/times relating to the currency conversion, i.e., effective date, expiration date, etc.

NOTES: The CUR segment is recommended by AVNET at the detail level. The CUR segment in the header pertains to the entire transaction set. The CUR segment in the detail is used for exceptions and overrides the CUR in the header level.

The CUR segment is used to indicate the Pricing Currency, the currency used for pricing; and the Exchange Rate, the factor by which you have to multiply an amount expressed in the "from" currency to get the equivalent expressed in the "to" currency.

If CUR01 and CUR02 are used alone, the code value in CUR01 should be "BY". If CUR01, CUR02, CUR04 and CUR05 are all used, the code value in CUR01 should be "SE", and the code value in CUR04 should be "BY".

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
CUR01	98	Entity Identifier Code Code identifying an organizational entity or a physical location.	M ID 2/2
<p>BY Buying Party (Purchaser) Business Requirement: Exchange Rate (#90). Use in conjunction with CUR02 and CUR03 to provide a simple exchange rate.</p>			
<p>SE Selling Party Business Requirement: Exchange Rate Currency From (#88). Use in conjunction with CUR04 to provide a detailed exchange rate conversion.</p>			

CUR02	100	Currency Code	M ID	3/3
		Code (Standard ISO) for country in whose currency the charges are specified.		
		Business Requirement: Pricing Currency (#95)		
CUR03	280	Exchange Rate	O R	4/6
		Value to be used as a multiplier conversion factor to convert monetary value from one currency to another.		
		Business Requirement: Exchange Rate (#90)		
CUR04	98	Entity Identifier Code	O ID	2/2
		Code identifying an organizational entity or a physical location.		
		BY Buying Party (Purchaser)		
		Business Requirement: Exchange Rate Currency To (#88).		
		Use only when CUR01 = SE, to provide a detailed exchange rate conversion.		
CUR05	100	Currency Code	O ID	3/3
		Code (Standard ISO) for country in whose currency the charges are specified.		
CUR06	669	Currency Market/Exchange Code	O ID	3/3
		Code identifying the market upon which the currency exchange rate is based.		
CUR07	374	Date/Time Qualifier	C ID	3/3
		Code specifying type of date or time, or both date and time.		
CUR08	373	Date	O DT	6/6
		Date (YYMMDD).		
CUR09	337	Time	O TM	4/4
		Time expressed in 24-hour clock time (HHMM, time range: 0000 though 2359).		

The ASC X12 003010 segment "CUR" contains twelve additional data elements not used by AVNET.

SEGMENT: **ITA** Allowance, Charge or Service
 LEVEL: Header
 LOOP: _____
 USAGE: Optional
 MAX USE: 5
 PURPOSE: To specify allowances, charges or services
 SYNTAX: 1 If ITA02 is present, then at least one of ITA03, or ITA13 is required.
 2 If ITA08 is present, then ITA09 is required.
 3 If ITA10 is present, then ITA11 is required.
 COMMENTS: **A** If ITA01 = A-Allowance or C-Charge, then at least one of ITA06, ITA07, or ITA08 must be present.
B If ITA07 is present with either ITA06 or ITA08, then ITA07 takes precedence.
C ITA12 is the quantity of free goods.
 NOTES: **The ITA segment is recommended by AVNET at the detail level. The ITA segment in the header pertains to the entire transaction set. The ITA segment in the detail is for exceptions and overrides the ITA at the header level.**

The ITA segment is used to indicate tax codes, service codes, allowance/charge codes and price type. The tax code is one which identifies the tax assessed upon products, services, allowances or charges, which is collected by and accounted to a fiscal authority. The service code is one which identifies the service (e.g., Intoplane Fee). The allowance/charge code is one which identifies the type of allowance or charge which is related to a product or service but is not a tax (e.g., small package premium, cash discount). The price type identifies a price as being a percentage, rate or value, and is used for price identification and determination (use ITA06, ITA07 or ITA09).

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
ITA01	248	Allowance or Charge Indicator Code which indicates an allowance or charge for the service specified.	M ID 1/1
Recommended by AVNET			
A Allowance			
C Charge			
N No Allowance or Charge			

ITA02	559	Association Qualifier Code Code identifying the association assigning the code values. Not Recommended by AVNET	O ID 2/2
ITA03	560	Special Services Code Code identifying the special service. Not Recommended by AVNET	C ID 2/10
ITA04	331	Allowance or Charge Method of Handling Code Code indicating method of handling for an allowance or charge. 05 Charge to be Paid by Vendor 06 Charge to be Paid by Customer ZZ Mutually Defined No charge associated with data element	M ID 2/2
ITA05	341	Allowance or Charge Number The number assigned by a vendor referencing an allowance, promotion, deal or charge. Not Recommended by AVNET	O AN 1/16
ITA06	359	Allowance or Charge Rate Allowance or Charge Rate per Unit. Business Requirement: Price Type (#106). ITA06 - ITA09 can be used in conjunction with CTP03 if the price being identified is expressed as a percentage or value.	O R 1/9
ITA07	360	Allowance or Charge Total Amount Total dollar amount for the allowance or charge.	O N2 1/9
ITA08	378	Allowance/ Charge Percent Qualifier Code indicating on what basis allowance or charge percent is calculated.	O ID 1/1
ITA09	332	Allowance or Charge Percent Allowance or charge expressed as a percent.	C R 1/6
ITA10	339	Allowance or Charge Quantity Quantity basis when allowance or charge quantity is different from the purchase order or invoice quantity. Not Recommended by AVNET	O R 1/10
ITA11	355	Unit of Measurement Code Code identifying the basic unit of measurement. Not Recommended by AVNET	C ID 2/2
ITA12	380	Quantity Numeric value of quantity. Not Recommended by AVNET	O R 1/10
ITA13	352	Description A free-form description to clarify the related data elements and their content. Not Recommended by AVNET	C AN 1/80

ITA14 150 **Special Charge Code** O ID 3/3

Code identifying type of special charge.

Recommended by AVNET

Business Requirement: Tax Type (#133) and Service Identification (#58).

If ITA01 = N, use applicable tax codes if the item being priced is a tax, or applicable service code to specify the service to which the price applies.

Business Requirement: Allowance/Charge Code (#112).

If ITA01 = A or C, use applicable allowance or charge code to specify the allowance/charge to which the price applies.

See Appendix C for code list for data element 150.

SEGMENT: **N1** Name
 LEVEL: Header
 LOOP: N1 REPEAT: 200
 USAGE: Optional
 MAX USE: 1
 PURPOSE: To identify a party by type of organization, name and code
 SYNTAX: 1 At least one of N102 or N103 must be present.
 2 If either N103 or N104 is present, then the other is required.
 COMMENTS: **A** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
 NOTES: **The N1 segment is used to identify the trading partners submitting and receiving the notification, as well as the customer, if the customer is different than the party receiving the notification and is not covered elsewhere (i.e. a subsidiary company).**

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
N101	98	Entity Identifier Code Code identifying an organizational entity or a physical location.	M ID 2/2
<p>BY Buying Party (Purchaser) Business Requirement: Product/Service Receiver (#35). Required by AVNET.</p>			
<p>EN End User Business Requirement: Customer (#21). Required by AVNET if the Customer is different than the Receiving Party and is not covered elsewhere.</p>			
<p>SE Selling Party Business Requirement: Notifying Party (#29). Required by AVNET.</p>			
N102	93	Name Free-form name.	C AN 1/35

N103	66	<p>Identification Code Qualifier</p> <p>Code designating the system/method of code structure used for Identification Code (67).</p> <p>Recommended by AVNET</p> <p>1 Dun and Bradstreet (Credit Reporting) (DUNS) Recommended by AVNET</p> <p>AV1 IATA 2-alpha Airline Code AV2 IATA 3-alpha Airline Code AV3 IATA Numeric Code (ASC X12 Data Maintenance request submitted)</p> <p>10 Department of Defense Activity Address Code (DODAAC)</p> <p>2 Standard Carrier Alpha Code (Motor) (SCAC)</p> <p>31 PIDX Company Code</p> <p>4 International Air Transport Association (IATA)</p> <p>9 DUNS with 4-character suffix</p> <p>ZZ Mutually Defined</p>	C ID 1/2
N104	67	<p>Identification Code</p> <p>Code identifying a party.</p> <p>Recommended by AVNET</p>	C ID 2/17

SEGMENT: **PER** Administrative Communications Contact
 LEVEL: Header
 LOOP: N1
 USAGE: Optional
 MAX USE: 3
 PURPOSE: To identify a person or office to whom administrative communications should be directed
 SYNTAX: 1 If PER03 is present, then PER04 is required.

NOTES: **The PER segment is used to identify the notifying and notified parties' point of contact - the department, position or person's name to which communication can be made in reference to the price notification - and the point of contact's communication number (telephone, facsimile, telex, etc.)**

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named.	M ID 2/2
		BD Buyer Name or Department Business Requirement: Notified Party Point of Contact (#27)	
		SR Sales Representative or Department Business Requirement: Notifying Party Point of Contact (#30)	
PER02	93	Name Free-form name.	O AN 1/35
PER03	365	Communication Number Qualifier Code identifying the type of communication number.	O ID 2/2
		TT Teletype (ARINC/SITA) Address (ASC X12 Data Maintenance request submitted)	
		EM Electronic Mail	
		FX Facsimile	
		TE Telephone	
		TL Telex	
PER04	364	Communication Number Complete communications number including country or area code when applicable.	C AN 7/21
		Business Requirements: Notifying Party Point of Contact Communication Number (#31) and Notified Party Point of Contact Communication Number (#28)	

SEGMENT: **LIN** Item Identification
 LEVEL: Detail
 LOOP: LIN REPEAT: 700000
 USAGE: Optional
 MAX USE: 1
 PURPOSE: To specify basic item identification data.
 SYNTAX: 1 If LIN04 is present, then LIN05 is required.
 2 If LIN06 is present, then LIN07 is required.
 3 If LIN08 is present, then LIN09 is required.
 4 If LIN10 is present, then LIN11 is required.
 5 If LIN12 is present, then LIN13 is required.
 6 If LIN14 is present, then LIN15 is required.
 7 If LIN16 is present, then LIN17 is required.
 8 If LIN18 is present, then LIN19 is required.
 9 If LIN20 is present, then LIN21 is required.
 10 If LIN22 is present, then LIN23 is required.
 11 If LIN24 is present, then LIN25 is required.
 12 If LIN26 is present, then LIN27 is required.
 13 If LIN28 is present, then LIN29 is required.
 14 If LIN30 is present, then LIN31 is required.
 COMMENTS: **A** See the Data Dictionary for a complete list of ID's.
B LIN01 is the line item identification
C LIN02 through LIN31 provide for fifteen (15) different product/service ID's for each item. For Example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.

NOTES: **The LIN segment is used to indicate**
1 the Product Identification, which is used to specify the product to which the price applies, and
2 the Method of Delivery, a code which identifies the manner in which the product is provided, and is used for price determination.

The LIN segment is used only if the item being priced is a product.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
LIN01	350	Assigned Identification	O AN 1/6
		Alphanumeric characters assigned for differentiation within a transaction set.	

LIN02 235 Product/Service ID Qualifier M ID 2/2
Code identifying the type/source of the descriptive number used in Product/Service ID (234).

The following list of code values applies to all Product ID Qualifiers in this segment. Codes AP, AV, PI and VN are used for Business Requirement: Product Identification (#56). Code MD is used for Business Requirement: Method of Delivery (#129). Use LIN03 for data pertaining to the relevant code.

**AP PIDX/PIDX Code List
Recommended by AVNET**

AV AVNET Maintained Code List

(ASC X12 Data Maintenance request will be submitted for both of the above values)

MD Method of Delivery Code

PI Purchaser's Item Code

VN Vendor's (Seller's) Item Number

LIN03 234 Product/Service ID M AN 1/30
Identifying number for a product or service.

If Product ID Qualifier (235) equals "MD", use the following AVNET-assigned code list in Product ID (234), if price is dependent on method of delivery and is not covered elsewhere:

**BG Barge
HY Into Plane (Hydrant)
IS Into Storage
PL Pipeline
RR Rail Car
TK Truck
TN Into Plane (Truck)**

LIN04 235 Product/Service ID Qualifier O ID 2/2
Code identifying the type/source of the descriptive number used in Product/Service ID (234).

LIN05 234 Product/Service ID C AN 1/30
Identifying number for a product or service.

The ASC X12 003010 segment "LIN" contains twenty six additional data elements not used by AVNET.

SEGMENT: **REF** Reference Numbers
 LEVEL: Detail
 LOOP: LIN
 USAGE: Optional
 MAX USE: 12
 PURPOSE: To specify identifying numbers.
 SYNTAX: 1 Either REF02 or REF03 is required.

NOTES: **The REF segment is used to identify**
1 the Contract Line Item Number, a reference which identifies a price or component thereof contained in an agreement and serves to facilitate the identification of the item being priced (use code "C7"), and
2 the Contract Reference, which identifies the agreement under which the product/service is provided and serves to assist in the identification of the agreement (use code "CT").

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
REF01	128	Reference Number Qualifier Code qualifying the Reference Number.	M ID 2/2
		C7 Contract Line Item Number Business Requirement: Contract Line Item Number (#3)	
		CT Contract Number Business Requirement: Contract Reference (#4)	
REF02	127	Reference Number Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	C AN 1/30
REF03	352	Description A free-form description to clarify the related data elements and their content.	C AN 1/80

SEGMENT: **ITA** Allowance, Charge or Service
 LEVEL: Detail
 LOOP: LIN
 USAGE: Optional
 MAX USE: 5
 PURPOSE: To specify allowances, charges or services
 SYNTAX: 1 If ITA02 is present, then at least one of ITA03, or ITA13 is required.
 2 If ITA08 is present, then ITA09 is required.
 3 If ITA10 is present, then ITA11 is required.
 COMMENTS: **A** If ITA01 = A-Allowance or C-Charge, then at least one of ITA06, ITA07, or ITA08 must be present.
B If ITA07 is present with either ITA06 or ITA08, then ITA07 takes precedence.
C ITA12 is the quantity of free goods.
 NOTES: **The ITA segment is used to indicate tax codes, service codes, allowance/charge codes and price type. The tax code is one which identifies the tax assessed upon products, services, allowances or charges, which is collected by and accounted to a fiscal authority. The service code is one which identifies the service (e.g., Intoplane Fee). The allowance/charge code is one which identifies the type of allowance or charge which is related to a product or service but is not a tax (e.g., small package premium, cash discount). The price type identifies a price as being a percentage, rate or value, and is used for price identification and determination (use ITA06, ITA07 or ITA09).**

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
ITA01	248	Allowance or Charge Indicator Code which indicates an allowance or charge for the service specified.	M ID 1/1
Recommended by AVNET			
A Allowance			
C Charge			
N No Allowance or Charge			
ITA02	559	Association Qualifier Code Code identifying the association assigning the code values.	O ID 2/2
Not Recommended by AVNET			
ITA03	560	Special Services Code Code identifying the special service.	C ID 2/10
Not Recommended by AVNET			

ITA04	331	Allowance or Charge Method of Handling Code	M ID 2/2
		Code indicating method of handling for an allowance or charge.	
		05 Charge to be Paid by Vendor	
		06 Charge to be Paid by Customer	
		ZZ Mutually Defined	
		No charge associated with data element	
ITA05	341	Allowance or Charge Number	O AN 1/16
		The number assigned by a vendor referencing an allowance, promotion, deal or charge.	
		Not Recommended by AVNET	
ITA06	359	Allowance or Charge Rate	O R 1/9
		Allowance or Charge Rate per Unit.	
		Business Requirement: Price Type (#106).	
		ITA06 - ITA09 can be used in conjunction with CTP03 if the price being identified is expressed as a percentage or value.	
ITA07	360	Allowance or Charge Total Amount	O N2 1/9
		Total dollar amount for the allowance or charge.	
ITA08	378	Allowance/ Charge Percent Qualifier	O ID 1/1
		Code indicating on what basis allowance or charge percent is calculated.	
ITA09	332	Allowance or Charge Percent	C R 1/6
		Allowance or charge expressed as a percent.	
ITA10	339	Allowance or Charge Quantity	O R 1/10
		Quantity basis when allowance or charge quantity is different from the purchase order or invoice quantity.	
		Not Recommended by AVNET	
ITA11	355	Unit of Measurement Code	C ID 2/2
		Code identifying the basic unit of measurement.	
		Not Recommended by AVNET	
ITA12	380	Quantity	O R 1/10
		Numeric value of quantity.	
		Not Recommended by AVNET	
ITA13	352	Description	C AN 1/80
		A free-form description to clarify the related data elements and their content.	
		Not Recommended by AVNET	

ITA14 150 **Special Charge Code** O ID 3/3

Code identifying type of special charge.

Recommended by AVNET

Business Requirement: Tax Type (#133) and Service Identification (#58).

If ITA01 = N, use applicable tax codes if the item being priced is a tax, or applicable service code to specify the service to which the price applies.

Business Requirement: Allowance/Charge Code (#112).

If ITA01 = A or C, use applicable allowance or charge code to specify the allowance/charge to which the price applies.

See Appendix C for expanded code list for data element 150.

SEGMENT: **CTP** Pricing Information
 LEVEL: Detail
 LOOP: LIN/CTP REPEAT: 25
 USAGE: Optional
 MAX USE: 1
 PURPOSE: To specify pricing information
 SYNTAX: 1 If CTP02 is present, then CTP03 is required.
 2 If CTP04 is present, then CTP05 is required.
 3 If CTP06 is present, then CTP07 is required.
 COMMENTS: A Example of use of CTP03 and CTP04.

PRICE	QUANTITY RANGE
1.00	0 to 999
0.75	1000 to 4999
0.50	5000 to 9999
0.25	10000 and above

CTP03	CTP04
1.00	0
0.75	1000
0.50	5000
0.25	10000

B Example of use of CTP03, CTP04 and CTP07.

CTP03	CTP04	CTP07
1.00	0	0.90
0.75	1000	0.90
0.50	5000	0.90
0.25	10000	0.90

C CTP07 is a multiplier factor to arrive at a final discounted price.
 A multiplier of 90 would be the factor if a 10% discount is given.

NOTES: **The CTP segment is used to indicate the New Price (a price valid from the effective date and time), the Old Price (the price valid prior to an effective date) and the Difference Price (the difference between an old and new price). A price notification message must contain one of these three price types.**

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
CTP01	687	Class of Trade Code Code indicating class of trade.	O ID 2/2

Not Recommended by AVNET

CTP02	236	<p>Price Qualifier Code identifying pricing specification.</p> <p>Recommended by AVNET</p> <p>CHG Changed Price Business Requirement: Difference in Price (#102)</p> <p>CON Contract Price Business Requirement: Old Price (#104)</p> <p>QTE Quote Price Business Requirement: New Price (#103)</p>	O ID 3/3
CTP03	212	<p>Unit Price Price per unit of product, service, commodity, etc.</p> <p>Required by AVNET</p> <p>Business Requirement: Price Type (#106). CTP03 can be used in conjunction with ITA06 - ITA09 if the price being identified is expressed as a percentage or value.</p>	C R 1/14
CTP04	380	<p>Quantity Numeric value of quantity.</p> <p>Business Requirement: Priced Quantity (#53)</p> <p>Use to indicate the quantity expressed in the pricing unit of measure when the price determination is related to a specific quantity.</p> <p>Business Requirement: Priced Quantity Qualifier (#54) The Price Quantity Qualifier is implicit in the use of the CTP segment as outlined in Example A under the segment description.</p>	O R 1/10
CTP05	355	<p>Unit of Measurement Code Code identifying the basic unit of measurement.</p> <p>Business Requirement: Pricing Unit of Measure (#55)</p> <p>Use to define the unit to which the unit price applies. Required for price determination.</p> <p>See Appendix C for ASC X12 Unit of Measurement Code list.</p>	C ID 2/2
CTP06	648	<p>Price Multiplier Qualifier Code indicating the type of price multiplier.</p> <p>Not Recommended by AVNET</p>	O ID 3/3

CTP07 649 Multiplier C R 1/10

Value, identified by price multiplier qualifier, to be used to multiply price to obtain a new value.

Not Recommended by AVNET

Business Requirement: Price Qualifier (#105)

An ASC X12 Data Maintenance request has been submitted to create a new data element and add it to the end of the CTP segment.

The DM requests:
an ID-type element, min=2, max=2
a name of "Price Basis"
a definition of "Code identifying the basis of the price"
the following new codes, 1=Carnet, 2=Posted, 3=Contract, 4=Formula

This new element, recommended by AVNET, is used as a price qualifier to identify the pricing category used to describe the base price.

SEGMENT: **DTM** Date/Time Reference
 LEVEL: Detail
 LOOP: LIN/CTP
 USAGE: Optional
 MAX USE: 10
 PURPOSE: To specify pertinent dates and times
 SYNTAX: 1 At least one of DTM02 or DTM03 must be present.

NOTES: **The DTM segment in the detail section is used to indicate the Price Expiration Date (the date and time on which a specific price becomes invalid) and the Price Effective Date (the date and time on which a specific price becomes valid).**

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time.	M ID 3/3
		007 Effective Business Requirement: Price Effective Date (#72) Required by AVNET	
		036 Expiration Business Requirement: Price Expiry Date (#73)	
DTM02	373	Date Date (YYMMDD).	C DT 6/6
		Recommended by AVNET	
DTM03	337	Time Time expressed in 24-hour clock time (HHMM, time range: 0000 through 2359).	C TM 4/4
DTM04	623	Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time. Since + is a restricted character, + and - are substituted by P and M in the codes that follow.	O ID 2/2

SEGMENT: **CUR** Currency

LEVEL: Detail

LOOP: LIN/CTP

USAGE: Optional

MAX USE: 5

PURPOSE: To specify the currency (dollars, pounds, francs, etc.) used in a transaction

- SYNTAX:
- 1 If CUR08 is present, then CUR07 is required.
 - 2 If CUR09 is present, then CUR07 is required.
 - 3 If CUR11 is present, then CUR10 is required.
 - 4 If CUR12 is present, then CUR10 is required.
 - 5 If CUR14 is present, then CUR13 is required.
 - 6 If CUR15 is present, then CUR13 is required.
 - 7 If CUR17 is present, then CUR16 is required.
 - 8 If CUR18 is present, then CUR16 is required.
 - 9 If CUR20 is present, then CUR19 is required.
 - 10 If CUR21 is present, then CUR19 is required.

COMMENTS: **A** Monetary values are assumed to be expressed in the currency of the country of the transaction originator unless the optional CUR segment is used to specify a different currency. The CUR segment also permits the transaction originator to indicate a specific exchange rate, foreign exchange location and date/time as the basis for a currency conversion. Example 1. Assuming the currency of the transaction originator is U.S. dollars, the following CUR segment, when used in the heading area of a transaction, would indicate that all monetary values appearing in the transaction are expressed in Canadian Dollars (CAD). (In this example the exchange rate is at the discretion of the receiver).

CUR*BY*CAD* N/L

Example 2. Assuming the currency of the transaction originator is U.S. dollars, the following CUR segment, when used in the detail area of a transaction, describes a currency conversion for that particular item from U.S. dollars to Canadian dollars. It also indicates that a specific exchange rate, at a specified foreign exchange location on a given date/time be used as the basis for the currency conversion. Notes below the diagram describe the meaning of the element values.

B CUR*BY*USD*1.20*SE*CAD*NY*007*840821*1400 N/L
1 2 3 4

1. Identifies the buyer's (BY) currency as U.S. dollars (USD).
2. The multiplier (1.20) is the exchange rate factor for the conversion.

3. Identifies the seller's (SE) currency as Canadian dollars (CAD).

4. Indicates the basis for the exchange rate as the New York Foreign Exchange (NY) and the effective date/time (007) as August 21, 1984 (840821) at 2:00 P.M. (1400).

The value for this item is to be converted to Canadian dollars (CAD) at the exchange rate of 1.20, based on the New York Foreign Exchange (NY) at 2:00 P.M. (1400) on August 21, 1984. The actual unit price conversion for the item would be: The unit price value 7.50 (U.S. dollars) multiplied by the exchange rate (1.20) equals 9.00 Canadian dollars (7.50 X 1.20 = 9.00) CUR07 through CUR21 provide for five (5) dates/times relating to the currency conversion, i.e., effective date, expiration date, etc.

NOTES: The CUR segment is used to indicate the Pricing Currency, the currency used for pricing; and the Exchange Rate, the factor by which you have to multiply an amount expressed in the "from" currency to get the equivalent expressed in the "to" currency.

If CUR01 and CUR02 are used alone, the code value in CUR01 should be "BY". If CUR01, CUR02, CUR04 and CUR05 are all used, the code value in CUR01 should be "SE", and the code value in CUR04 should be "BY".

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
CUR01	98	Entity Identifier Code Code identifying an organizational entity or a physical location.	M ID 2/2
<p>BY Buying Party (Purchaser) Business Requirement: Exchange Rate (#90). Use in conjunction with CUR02 and CUR03 to provide a simple exchange rate.</p>			
<p>SE Selling Party Business Requirement: Exchange Rate Currency From (#88). Use in conjunction with CUR04 to provide a detailed exchange rate conversion.</p>			
CUR02	100	Currency Code Code (Standard ISO) for country in whose currency the charges are specified.	M ID 3/3
<p>Business Requirement: Pricing Currency (#95)</p>			

CUR03	280	Exchange Rate	O R	4/6
Value to be used as a multiplier conversion factor to convert monetary value from one currency to another.				
Business Requirement: Exchange Rate (#90)				
CUR04	98	Entity Identifier Code	O ID	2/2
Code identifying an organizational entity or a physical location.				
BY Buying Party (Purchaser)				
Business Requirement: Exchange Rate Currency To (#88).				
Use only when CUR01 = SE, to provide a detailed exchange rate conversion.				
CUR05	100	Currency Code	O ID	3/3
Code (Standard ISO) for country in whose currency the charges are specified.				
CUR06	669	Currency Market/Exchange Code	O ID	3/3
Code identifying the market upon which the currency exchange rate is based.				
CUR07	374	Date/Time Qualifier	C ID	3/3
Code specifying type of date or time, or both date and time.				
CUR08	373	Date	O DT	6/6
Date (YYMMDD).				
CUR09	337	Time	O TM	4/4
Time expressed in 24-hour clock time (HHMM, time range: 0000 though 2359).				

The ASC X12 003010 segment "CUR" contains twelve additional data elements not used by AVNET.

SEGMENT: **PO4** Item Physical Details
 LEVEL: Detail
 LOOP: LIN/CTP
 USAGE: Optional
 MAX USE: 1
 PURPOSE: To specify the physical qualities, packaging, weights and dimensions relating to the item.
 SYNTAX: 1 If PO402 is present, then PO403 is required.
 2 If PO405 is present, then at least one of PO406 or PO407 is required.
 3 If PO408 is present, then PO409 is required.
 4 If PO413 is present, then at least one of PO410, PO411 or PO412 is required.
 COMMENTS: **A** PO403 - The "Unit of Measure Code" (Element #355) in this segment position is for purposes of defining the pack (PO401) /size (PO402) measure which indicates the quantity in the inner pack unit. Example: If the carton contains 24 12-Ounce packages, it would be described as follows: Element 356 = 24; Element 357 = 12; Element 355 = OZ.
B PO410 defines the unit of measure for PO408, PO409, and PO410.
 NOTES: **If price determination is package related and is not covered elsewhere, the PO4 segment is used to identify the type of packaging or container in which the product was priced and the package measure - the quantity contained in the smallest package.**

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
PO401	356	Pack Number of inner pack units per outer pack unit.	O NO 1/6
PO402	357	Size Size of supplier units in pack.	O R 1/8
PO403	355	Unit of Measurement Code Code identifying the basic unit of measurement.	C ID 2/2

Business Requirement: Package Measure (#52).
Required if price determination is package related and is not covered elsewhere.

See Appendix C for ASC X12 Unit of Measurement Code list.

PO404 103 Packaging Code **O ID 5/5**
Code identifying the type of packaging. Part 1. Packaging form. Part 2. Packaging Material.

**Business Requirement: Type of Package (#61).
Required if price determination is package related and is not covered elsewhere.**

See Appendix C, Packaged Code list

The ASC X12 003010 segment "PO4" contains nine additional data elements not used by AVNET.

SEGMENT: **N1** Name
 LEVEL: Detail
 LOOP: LIN/N1 REPEAT: 200
 USAGE: Optional
 MAX USE: 1
 PURPOSE: To identify a party by type of organization, name and code
 SYNTAX: 1 At least one of N102 or N103 must be present.
 2 If either N103 or N104 is present, then the other is required.
 COMMENTS: **A** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
 NOTES: **The N1 segment at the detail level is used to identify**
 1 Receiving Location - the geographic location where the product or service is provided - which is required for price determination (use code "RC"), and
 2 Receiving Sublocation - a specific sublocation within a geographic location where the product or service is provided - which is used if the price is dependent on the sublocation and is not covered elsewhere (use code "RT").

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
N101	98	Entity Identifier Code Code identifying an organizational entity or a physical location.	M ID 2/2
<p>RT Receiving Sublocation (ASC X12 Data Maintenance request submitted) Business Requirement: Receiving Sublocation (#86) Required if price is dependent on Sublocation and is not covered elsewhere.</p>			
<p>RC Receiving Location Business Requirement: Receiving Location (#85). Required by AVNET.</p>			
N102	93	Name Free-form name.	C AN 1/35
N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67).	C ID 1/2
<p>4 International Air Transport Association (IATA)</p>			
<p>ZZ Mutually Defined</p>			
N104	67	Identification Code Code identifying a party.	C ID 2/17

SEGMENT: **CTT** Transaction Totals
 LEVEL: Summary
 LOOP: _____
 USAGE: Mandatory
 MAX USE: 1
 PURPOSE: To transmit a hash total for a specific element in the transaction set
 SYNTAX: 1 If CTT03 is present, then CTT04 is required.
 2 If CTT05 is present, then CTT06 is required.
 COMMENTS: **A** This segment is intended to provide hash totals to validate transaction completeness and correctness.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
CTT01	354	Number of Line Items	M NO 1/6
		Total number of line items in the transaction set.	

The ASC X12 003010 segment "CTT" contains six additional data elements not used by AVNET.

SEGMENT: **SE** Transaction Set Trailer
 LEVEL: Summary
 LOOP: _____
 USAGE: Mandatory
 MAX USE: 1
 PURPOSE: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).
 COMMENTS: **A** SE is the last segment of each transaction set.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments.	M NO 1/6
SE02	329	Transaction Set Control Number Identifying control number assigned by the originator for a transaction set.	M AN 4/9