

APPROVED MATERIAL SPECIFICATIONS FOR UNDERGROUND CONSTRUCTION

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REVISED: March 31, 2021

The following are Halton Hills Hydro's Approved Materials Specifications to be used in conjunction with this utility's Underground Distribution Specifications (UD-Specs) and were developed by Halton Hills Hydro Inc. to be used soley in this utility's service area.

Halton Hills Hydro has and will continue to determine the application for approved materials. Halton Hills Hydro will not be held responsible/ liable for any misuse of these materials by others (inside or outside the limits of this utility's service area).

These specifications are not recommended for use outside of Halton Hills Hydro's distribution service area as other standards/ codes may apply in other areas. As such, Standards/ Codes/ other applicable documentation should be obtained from the utility responsible for power distribution in the area you are working, if not within the limits of this utility's service area.

Please note that these materials are subject to change without notification and as such it is recommended that the user confirm latest revision of the materials specification if in doubt. Halton Hills Hydro shall not be held liable for equipment purchased that does not meet with these specifications and for any malfunction of equipment used. Halton Hills Hydro reserves the right to reject materials used if the equipment does not conform the these specification or if another valid reason exists not to allow the use of the material. It is the responsibility of the user to ensure they are purchasing only approved materials and are using the correct materials for the intended use.

3.1 Cable and Cable Supports

WIR52	MCM, COM	DERGROUND SECONDA PACT AL., XLPEI-PVCJ, CSA-C22.2 No.52-96 (R200	600V TO CEA WCW	
MANUFACTURER: MFG. CAT# MANUFACTURER: MFG. CAT#	PRYSMIAN	GENERAL CABLE	NEXANS	
WIR53	MCM, COM	DERGROUND SECONDA PACT AL., XLPEI-PVCJ, CSA-C22.2 No.52-96 (R200	600V TO CEA WCW	
MANUFACTURER: MFG. CAT# MANUFACTURER: MFG. CAT#	PRYSMIAN	GENERAL CABLE	NEXANS	
WIR56	STRAND BL	DERGROUND PRIMARY OCKED, TR-XLPEI, LLE ATION, FULL CONCEN	PEJ, 28 KV TO CSA	· · · · · · · · · · · · · · · · · · ·
MANUFACTURER: MFG. CAT#	PRYSMIAN	GENERAL CABLE	NEXANS	
WIRxx	STRAND BL	DERGROUND PRIMARY OCKED, TR-XLPEI, LLE 0% INSULATION, FULL	PEJ, 28 KV TO CSA	A C68.5-15
MANUFACTURER: MFG. CAT#	PRYSMIAN 20266757	GENERAL CABLE T-264352	SOUTHWIRE 66.04.41	
WIR57	STRAND BL 100% INSUL	DERGROUND PRIMARY OCKED, TR-XLPEI, LLE ATION, FULL CONCEN TIAL/ COMMERCIAL/ I OPMENTS**	OPEJ, 28 KV TO CSA TRIC NEUTRAL. **	A C68.5-15, NOT FOR USE
MANUFACTURER: MFG. CAT#	PRYSMIAN	GENERAL CABLE	NEXANS	
WIR66	STRAND BL	DERGROUND PRIMARY OCKED, TR-XLPEI, LLI N, 1/3 CONCENTRIC NE	PEJ, 28 KV TO CSA	
MANUFACTURER:	PRYSMIAN	GENERAL CABLE	NEXANS	SOUTHWIRE
MFG. CAT#				62-92-10

3.1 Cable and Cable Supports

WIR69	CABLE, UNDERGROUND PRIMARY, 1000 MCM, COMPACT CU., STRAND BLOCKED, TR-XLPEI, LLDPEJ, 28 KV TO CSA C68.5-15, 100% INSULATION, 1/3 CONCENTRIC NEUTRAL. (FEEDER EGRESS OLNY OR IF SPECIFIED BY HALTON HILLS HYDRO)			
MANUFACTURER: MFG. CAT#	PRYSMIAN	GENERAL CABLE	NEXANS	
WIR66	STRAND BL 100% INSUL	DERGROUND PRIMARY OCKED, TR-XLPEI, PVC ATION, 1/3 CONCENTR NCE USE ONLY, NOT FC	J, 28 KV TO CSA C68.5-1 C NEUTRAL. **FOR	5,
MANUFACTURER: MFG. CAT#	PRYSMIAN	GENERAL CABLE	NEXANS	
CAB01	CABLE SUPPORT, UNDERGROUND IN CONCRETE FOUNDATION, V- CUSHION WITH CLAMPING BRACKET AND HOT DIP GALVANIZED CHANNEL FOR MOUNTING SUPPORTS (TYPICALLY FITS 1000MCM, 28kV CABLE WITH DIAMETER OF 2-1/4" BUT CONTRACTOR SHALL ENSURE SNUG FIT AROUND CABLE).		VANIZED 000MCM,	
MANUFACTURER: MFG. CAT#	SASCO STRUT S214VC-EH			
CAB02	CUSHION W CHANNEL H 28kV CABLI	PORT, UNDERGROUND /ITH CLAMPING BRACI FOR MOUNTING SUPPO E WITH DIAMETER OF 1 UG FIT AROUND CABLI	KET AND HOT DIP GALV RTS (TYPICALLY FITS 5 -7/8" BUT CONTRACTO	VANIZED 500MCM,
MANUFACTURER: MFG. CAT#	SASCO STRUT S178VC-EH			
		ARY CABLE SHALL BE MANUFACT ECIFICATION "GSC U/G CABLE" AN		IARY CABLE
		ORS AND CABLES MANUFACTURI S HYDRO, HAVING RECEIVED CS/		

NOTE: CONDUCTORS AND CABLES MANUFACTURED BY COMPANIES LISTED ABOVE ARE APPROVED BY HALTON HILLS HYDRO, HAVING RECEIVED CSA CERTIFICATION RECORDS OR TYPE TEST DATA FOR CONDUCTORS OR CABLES AS PER O.REG 22/04. ADDITIONAL MANUFACTURER'S MAY BE ADDED PROVIDED TYPE TEST DATA IS PROVIDED TO HALTON HILLS HYDRO PRIOR TO PURCHASING. TRANSFORMER, SINGLE PHASE, DUAL VOLTAGE PRIMARY, LOW PROFILE, PADMOUNTED, 50 kVA, 16000/4800V-240/120V TO BE USED

PM

WITH VAULT FOUNDATION AS PER GRIDSMART CITY **SPECIFICATION GSC DT-1PAD.** MANUFACTURER: MOLONEY CAM-TRAN CES MFG. CAT# MANUFACTURER: MFG. CAT# **PM022** TRANSFORMER, SINGLE PHASE, DUAL VOLTAGE PRIMARY, LOW PROFILE, PADMOUNTED, 50 kVA, 16000/4800V-240/120V TO BE USED WITH VAULT FOUNDATION AS PER GRIDSMART CITY SPECIFICATION GSC DT-1PAD. MANUFACTURER: MOLONEY CAM-TRAN CES MFG. CAT# MANUFACTURER: ABB MFG. CAT# PM **TRANSFORMER, SINGLE PHASE, LOW PROFILE, PADMOUNTED, 50** kVA, 2400V-240/120V TO BE USED WITH VAULT FOUNDATION AS PER **GRIDSMART CITY SPECIFICATION GSC DT-1PAD.** MOLONEY MANUFACTURER: CAM-TRAN CES MFG. CAT# MANUFACTURER: ABB MFG. CAT# PM **TRANSFORMER, SINGLE PHASE, LOW PROFILE, PADMOUNTED, 75** kVA, 16000V-240/120V TO BE USED WITH VAULT FOUNDATION AS PER GRIDSMART CITY SPECIFICATION GSC DT-1PAD. MANUFACTURER: MOLONEY CAM-TRAN ABB MFG. CAT# MANUFACTURER: ABB MFG. CAT# PM TRANSFORMER, SINGLE PHASE, DUAL VOLTAGE PRIMARY, LOW PROFILE, PADMOUNTED, 75 kVA, 16000/4800V-240/120V TO BE USED WITH VAULT FOUNDATION AS PER GRIDSMART CITY SPECIFICATION GSC DT-1PAD. MANUFACTURER: MOLONEY CAM-TRAN CES MFG. CAT# ABB

MANUFACTURER: MFG. CAT#

PM

TRANSFORMER, SINGLE PHASE, LOW PROFILE, PADMOUNTED, 75 kVA, 2400V-240/120V TO BE USED WITH VAULT FOUNDATION AS PER GRIDSMART CITY SPECIFICATION GSC DT-1PAD.

MANUFACTURER: MFG. CAT# MANUFACTURER: MFG. CAT#	MOLONEY	CAM-TRAN	CES
РМ	kVA, 16000V-240/	, SINGLE PHASE, LOW PROFILE, P. 120V TO BE USED WITH VAULT FO T CITY SPECIFICATION GSC DT-11	DUNDATION AS
MANUFACTURER: MFG. CAT# MANUFACTURER: MFG. CAT#	MOLONEY ABB	CAM-TRAN	CES
РМ	PROFILE, PADM	, SINGLE PHASE, DUAL VOLTAGE OUNTED, 100 kVA, 16000/4800V-240/ DUNDATION AS PER GRIDSMART (GSC DT-1PAD.	120V TO BE USED
MANUFACTURER: MFG. CAT# MANUFACTURER: MFG. CAT#	MOLONEY	CAM-TRAN	CES
РМ	PROFILE, PADM	, SINGLE PHASE, DUAL VOLTAGE OUNTED, 100 kVA, 2400V-240/120V ATION AS PER GRIDSMART CITY S	FO BE USED WITH
MANUFACTURER: MFG. CAT# MANUFACTURER: MFG. CAT#	MOLONEY	CAM-TRAN	CES

NOTE: TRANSFORMERS MANUFACTURED BY COMPANIES LISTED ABOVE ARE APPROVED BY HALTON HILLS HYDRO. THOSE PURCHASING TRANSFORMERS FROM THESE COMPANIES SHALL SUBMIT TYPE TEST DATA AND GUARANTEED LOSSES FOR TRANSFORMERS AS PER O.REG 22/04 OR HAVE BEEN CSA/ ESA/ UL CERTIFIED AND HHHI REQUIREMENTS. ADDITIONAL MANUFACTURER'S MAY BE ADDED PROVIDED TYPE TEST DATA IS PROVIDED TO HALTON HILLS HYDRO PRIOR TO PURCHASING. ALL TRANSFORMER MUST BE BUILT TO CSA SPECIFICATIONS CAN/ CSA C227.3 (LATEST REVISION) AND IN ACCORDANCE WITH GRIDSMART CITY SPECIFICATION GSC DT-1PAD (LATEST REVISION). PLEASE CONTACT ENGINEERING DEPARTMENT FOR GUIDELINES.

TER03	TERMINATION, COLD SHRIN 28kV, 200 KV BIL, ANSI/IEEE 48	K, SILICONE POLYMER, #2 - #4/0 AWG, 3-1990 , CLASS 1
MANUFACTURER: MFG. CAT#	3M 7654-5-4	
TER01	TERMINATION, COLD SHRIN KCMIL, 28kV, 200 KV, ANSI/IEI	K, SILICONE POLYMER, 250 - 800 EE 48-1990 , CLASS 1
MANUFACTURER: MFG. CAT#	3M 7655-S-4	
TER02	TERMINATION, COLD SHRIN KCMIL, 28kV, 200 KV, ANSI/IEI	K, SILICONE POLYMER, 900 - 1750 EE 48-1990 , CLASS 1
MANUFACTURER: MFG. CAT#	3M 7666-S-8	
UGM021		P, 28KV, C/W TEST POINT, FOR #1/0 BLE, (28kV CLASS) ANSI/IEEE 386-1995
MANUFACTURER: MFG. CAT# MFG. CAT# MFG. CAT# MFG. CAT#	primary cable. Typically use code	Cooper - RTE PLE228CC06TCSA PLE228DD06TCSA PLE228CC07TCSA PLE228DD07TCSA for verifying the elbow will mate with the "06" for #1/0 cable or use code "07" for ations and design for appropriate size
UGM022		AK, 200 AMP, 28 KV, ANSI/IEEE 386-1995
MANUFACTURER: MFG. CAT#	RTE LBI228	ELASTIMOLD 2701A4-CS854
UGM23	CAP, INSULATING, 28 KV, FO	DR 200 AMP, 28 KV INSERT, BUSHING,
	LOADBREAK, C/W GROUND V	VIRE, ANSI/IEEE 386-1995
MANUFACTURER: MFG. CAT#	ELASTIMOLD 273DRGA-CS854	RTE PLPC-228
UGM30	ELBOW" C/W GROUND LEAD	A RATED, "METAL OXIDE VARISTOR AND DRAIN WIRE TAB TO BE AND UGM48, ANSI/IEEE 386-1995
MANUFACTURER: MFG. CAT#	COOPER/ RTE 3238019C21M	
UGM47		? (ELASTIMOLD), 600 AMP, 28KV, C/W ABLE BEING INSTALLED, ANSI/IEEE 386-
MANUFACTURER:	RTE	ELASTIMOLD

MFG. CAT#	DT628T	K656BLR	
UGM48		AK REDUCING TAP PLUG, 28kV BACK OF T-OP 2/ T-BODY AND C 1995	
MANUFACTURER: MFG. CAT#	RTE LRTP628	ELASTIMOLD K650ETP	
UGM51		P, 600A, 28kV FOR T-OP 2 ELBO WITH DRAIN WIRE, ANSI/IEEE	
MANUFACTURER: MFG. CAT#	COOPER/ RTE DPC628		
UGM52		P, 600A, 28kV FOR T-OP 2 ELBO WITH DRAIN WIRE, ANSI/IEEE	
MANUFACTURER: MFG. CAT#	COOPER/ RTE DPC628UT		
UGM55		M (CABLE DIAMETERS 1.36" - 1 O COOPER/ RTE T-OP 2. **PURG TT CABLE.	,
MANUFACTURER: MFG. CAT#	COOPER/ RTE CA628H		
UGM56		CM (CABLE DIAMETERS 1.64" - O COOPER/ RTE T-OP 2. **PURC TT CABLE.	,
MANUFACTURER:	СА628К		
UGM MANUFACTURER: MFG. CAT#	CONNECTOR, 500MCM COOPER/ RTE CC6C22TCSA30		
UGM MANUFACTURER: MFG. CAT#	CONNECTOR, 1000MCM COOPER/ RTE CC6C27TCSA32		
UGM MANUFACTURER: MFG. CAT#	PARKING STAND BUSHING, 2 COOPER/ RTE ISB628CSC	8kV, 600A.	
UGM	CONNECTOR, STEM, COMPRICOMPACT STRANDED	ESSION Al/Cu, #1 AWG - #1/0 AW	/G
MANUFACTURER: MFG. CAT#	3M SC0001		
CON	CONNECTOR, COMPRESSION COMPACT STRANDED	SLEEVE, FOR #4/0 - #4/0 AWG, A	AL/AL
MANUFACTURER: MFG. CAT#	ILSCO ASC4/0	LAPRAIRIE KSN40P	BURNDY YJS28A

CON	CONNECTOR, COMPRESSION or AL/AL COMPACT STRAND	N SLEEVE, FOR #250 - #250 MCM ED	, CU/CU
MANUFACTURER: MFG. CAT#	ILSCO ASC250	LAPRAIRIE KSN025P	BURNDY YJS29A
CON03	CONNECTOR, LUG, 1 HOLE, C STRANDED (For Primary Cable	COMPRESSION, #1/0 AWG, CU C s)	OMPACT
MANUFACTURER: MFG. CAT#	BURNDY YJA1/0T12	TRIDEM 01-210:1	LAPRAIRIE CKLL10-NTN
CON006	CONNECTOR, LUG, 1 HOLE, C STRANDED (For Secondaries to	COMPRESSION, #4/0 AWG, AL Co Meter Base)	OMPACT
MANUFACTURER: MFG. CAT# MANUFACTURER: MFG. CAT#	ILSCO ACC4/0 BURNDY YJA4/0AT12TN	SPECTAL HT4/0-1T	LAPRAIRIE KL40-TN
CON	CONNECTOR, LUG, 1 HOLE, C STRANDED (For Secondaries to	COMPRESSION, 250 MCM, AL CO Meter Base)	OMPACT
MANUFACTURER: MFG. CAT# MANUFACTURER: MFG. CAT#	ILSCO ACC-250 BURNDY YJA343AT12TN	SPECTAL HT25-1T	LAPRAIRIE KLO25-TN
CON	CONNECTOR, LUG, 1 HOLE, C STRANDED (For Grounding Wi		
MANUFACTURER: MFG. CAT#	BURNDY YJA2/0T12	TRIDEM 01-212:1	LAPRAIRIE CKLL20-NTN
CON	CONNECTOR, TAP, WEDGE, C AWG STR. TO #2/0 AWG Str.	COPPER, WHITE CARTRIDGE F	OR #2/0
MANUFACTURER: MFG. CAT#	AMPACT 1-275187-5		
CON	CONNECTOR, TAP, WEDGE, C AWG STR. TO #2/0 AWG Str.	COPPER, WHITE CARTRIDGE F	OR #1/0
MANUFACTURER: MFG. CAT#	AMPACT 1-275187-6		

UGM	DUCT, PVC, 3" (75 MM), 3M LE CSA C22.2 NO. 211.1	NGTH, TYPE DB2/ES2, C/W BELL END,
MANUFACTURER: MFG. CAT#	ROYAL DB1003	IPEX 08230
UGM040	оотктос DUCT, PVC, 4" (100 MM), 3M L CSA C22.2 NO. 211.1	ENGTH, TYPE DB2/ES2, C/W BELL END,
MANUFACTURER: MFG. CAT#	ROYAL DB1004	IPEX 08240
UGM	DUCT, PVC, 3" (75 MM), 6M LE CSA C22.2 NO. 211.1	NGTH, TYPE DB2/ES2, C/W BELL END,
MANUFACTURER: MFG. CAT#	ROYAL DB2003	IPEX 08231
UGM041	DUCT, PVC, 4" (100 MM), 6M L CSA C22.2 NO. 211.1	ENGTH, TYPE DB2/ES2, C/W BELL END,
MANUFACTURER: MFG. CAT#	ROYAL DB2004	IPEX 08241
UGM	COUPLING, POLYETHYLENE 211.1 FOR CONCRETE ENCAS	3" (75 MM), PUSH FIT, CSA C22.2 NO. ED DUCTWORK ONLY
MANUFACTURER: MFG. CAT#	ROYAL PFC03	IPEX PFC030
UGM	COUPLING, POLYETHYLENE	, 4" (100 MM), PUSH FIT, CSA C22.2 NO.
	211.1 FOR CONCRETE ENCAS	ED DUCTWORK ONLY
MANUFACTURER: MFG. CAT#	ROYAL PFC04	IPE) PFC04(
UGM	COUPLING, POLYETHYLENE	, 5°, 3" (75 MM), PUSH FIT, CSA C22.2 NO.
	211.1 FOR CONCRETE ENCAS	ED DUCTWORK ONLY
MANUFACTURER: MFG. CAT#	ROYAL PFC5 03	IPE) SAPF30
UGM	COUPLING, POLYETHYLENE NO. 211.1 FOR CONCRETE EN	, 5°, 4" (100 MM), PUSH FIT, CSA C22.2 CASED DUCTWORK ONLY
MANUFACTURER: MFG. CAT#	ROYAL PFC5 04	IPEX SAPF40
UGM	COUPLING, PVC SOLVENT W	ELD, 3" (75 MM), CSA C22.2 NO. 211.1
MANUFACTURER: MFG. CAT#	ROYAL SWC 03	IPEX SWC030
UGM	COUPLING, PVC SOLVENT W	ELD, 4" (100 MM), CSA C22.2 NO. 211.1
MANUFACTURER: MFG. CAT#	ROYAL SWC 04	IPEX SWC040
UGM	COUPLING, PVC SOLVENT W	ELD, 5°, 3" (75 MM), CSA C22.2 NO. 211.1
MANUFACTURER: MFG. CAT#	ROYAL SWC5 03	IPEX 5ACS30

UGM	COUPLING, PVC SOLVENT W	ELD, 5°, 4" (100 MM), CSA C22.2 NO. 211.1
MANUFACTURER:	ROYAL	IPEX
MFG. CAT#	SWC5 04	SACS40
	DUCT PLUG, TAPERED, PVC,	3" (75 MM), CSA C22.2 NO. 211.1
MANUFACTURER:	ROYAL	IPEX
MFG. CAT#	PLUGO3	PLUG30
UGM	DUCT PLUG, TAPERED, PVC,	4" (100 MM), CSA C22.2 NO. 211.1
MANUFACTURER:	ROYAL	IPEX
MFG. CAT#	PLUG04	PLUG40
UGM	DUCT SPACER, INTERMEDIA C22.2 NO. 211.1	TE, 4" X 1-1/2", FOR 4" DUCT, PVC, CSA
MANUFACTURER:	ROYAL	IPEX
MFG. CAT#	RIS4015	IS5530
UGM	DUCT SPACER, BASE, 4" X 1-1 211.1	/2", FOR 4" DUCT, PVC, CSA C22.2 NO.
MANUFACTURER:	ROYAL	IPEX
MFG. CAT#	RBS4015	BS5530
UGM	DUCT SPACER, INTERMEDIA C22.2 NO. 211.1	TE, 3" X 1-1/2", FOR 3" DUCT, PVC, CSA
MANUFACTURER:	ROYAL	IPEX
MFG. CAT#	IS3015	IS4530
UGM	DUCT SPACER, BASE, 3" X 1-1 211.1	/2", FOR 3" DUCT, PVC, CSA C22.2 NO.
MANUFACTURER:	ROYAL	IPEX
MFG. CAT#	BS3015	BS4530
UGM	BELL END, PVC, 3", TYPE DB	2/ES2, CSA C22.2 NO. 211.1
MANUFACTURER:	ROYAL	IPEX
MFG. CAT#	BEL03	BELL30
UGM	BELL END, PVC, 4", TYPE DB2	2/ES2, CSA C22.2 NO. 211.1
MANUFACTURER:	ROYAL	IPEX
MFG. CAT#	BEL04	BELL40
UGM	DUCT BEND, PVC, 3" X 36"(R)	, 45°, TYPE DB2/ES2, CSA C22.2 NO. 211.1
MANUFACTURER:	ROYAL	IPEX
MFG. CAT#	45B3X36	453036
UGM	DUCT BEND, PVC, 4" X 36"(R)	, 45°, TYPE DB2/ES2, CSA C22.2 NO. 211.1
MANUFACTURER:	ROYAL	IPEX
MFG. CAT#	45B4X36	454036
UGM	DUCT BEND, PVC, 3" X 60"(R)	, 45°, TYPE DB2/ES2, CSA C22.2 NO. 211.1
MANUFACTURER:	ROYAL	IPEX
MFG. CAT#	45B3X60	453060

UGM DUCT BEND, PVC, 4" X 60"(R), 45°, TYPE DB2/ES2, CSA C22.2 NO. 211.1

MANUFACTURER:	ROYAL	IPEX	
MFG. CAT#	45B4X60	454060	
UGM	DUCT BEND, PVC, 3" X 36"(R),	90°, TYPE DB2/ES2, CSA C22.2	2 NO. 211.1
MANUFACTURER:	ROYAL	IPEX	
MFG. CAT#	90B3X36	903036	
UGM	DUCT BEND, PVC, 4" X 36"(R),	90°, TYPE DB2/ES2, CSA C22.2	2 NO. 211.1
MANUFACTURER:	ROYAL	IPEX	
MFG. CAT#	90B4X36	904036	
UGM	DUCT BEND, PVC, 3" X 60"(R),	90°, TYPE DB2/ES2, CSA C22.2	2 NO. 211.1
MANUFACTURER:	ROYAL	IPEX	
MFG. CAT#	9083X60	903060	
UGM	DUCT BEND, PVC, 4" X 60"(R),	90°, TYPE DB2/ES2, CSA C22.2	2 NO. 211.1
MANUFACTURER:	ROYAL	IPEX	
MFG. CAT#	90B4X60	904060	
UGM	DUCT, RIGID PVC, 2" (50 MM),	C/W BELL END, CSA C22.2 N	0. 211.2
MANUFACTURER:	ROYAL	IPEX	
MFG. CAT#	RC0200	32120	
UGM	DUCT, RIGID PVC, 2.5" (50 MM	I), C/W BELL END, CSA C22.2	NO. 211.2
MANUFACTURER:	ROYAL	IPEX	
MFG. CAT#	RC0250	32125	
UGM	BELL END, 2" RIGID PVC, PAR DUCT INSTALLATION SPEC U		CE, SEE
MANUFACTURER:	ROYAL	IPEX	CARLON
MFG. CAT#	N/A	IB35	E997J-CAR
UGM	BELL END, 2.5" RIGID PVC, PA DUCT INSTALLATION SPEC U		NCE, SEE
MANUFACTURER:	ROYAL	IPEX	CARLON
MFG. CAT#	N/A	IB4(E997k
UGM	OFFSET TERMINAL ADAPTOF BASE ENTRANCE	RIGID PVC, PART OF M	IETER
MANUFACTURER:	ROYAL	IPEX	CARLON
MFG. CAT#	CMO35	MO35	E995]
UGM	TERMINAL ADAPTER, 2" RIGI ENTRANCE	D PVC, PART OF METER BAS	SE
MANUFACTURER:	ROYAL	IPEX	CARLON
MFG. CAT#	CTA35	TA35	E943]

UGM TERMINAL ADAPTER, 2.5" RIGID PVC, PART OF METER BASE ENTRANCE

MANUFACTURER: MFG. CAT#	ROYAL N/A	IPEX TA4C	CARLON E943k
UGM	GENTLE 90 DEGREE ELBOW, CSA APPROV SERVICE DUCT TO SMALLER SERVICE DU INSTALLATIONS ONLY. BELL END SHALL	JCT. TO BE USED IN RECESSED METER	
MANUFACTURER: MFG. CAT#	IPEX EE3590 (METER END) & 68427 (BELL	END) OR LARGER AS REQUIRED	
UGM	U-Guard Riser, PVC, Power Mold, 2' conjunction with HHH Specificatior		in
Distributor	: Holm Indistries Inc. : Lakeport Power Ltd. # 400PM2-408		
UGM	U-Guard Riser, PVC, Power Mold, 4' conjunction with HHH Specificatior		in
Distributor	: Holm Indistries Inc. : Lakeport Power Ltd. # 400PM4-408		
UGM	Adapter Boot, PVC, 2" or 3", Vente Specification UD-15 (most recent r		

MANUFACTURER: Holm Indistries Inc. Distributor: Lakeport Power Ltd. MFG. CAT# 400PMA-23

SWG	SWITCHGEAR, 28 KV, PADMOUNTED, SF6 SWITCH/ RFI, 3 PHASE, 5 WAY, 2 SWITCHED WAYS, AND 3 FAULT INTERRUPTING WAY c/w MOTOR OPERATION PROVISIONS.
MANUFACTURER: MFG. CAT# MODEL (& PART #):	CANADA POWER PRG6-55-29.3 6TTT6/ 898 (801C1801)
SWG	SWITCHGEAR, 28 KV, PADMOUNTED, SF6 SWITCH/ RFI, 3 PHASE, 4 WAY, 3 SWITCHED WAYS, AND 1 FAULT INTERRUPTING WAY c/w MOTOR OPERATION PROVISIONS.
MANUFACTURER:	CANADA POWER
MFG. CAT# MODEL (& PART #):	PRG6-44-29.3 66T6/ 898 (801C1806)
SWG	SWITCHGEAR, 28 KV, PADMOUNTED, SF6 SWITCH/ RFI, 3 PHASE, 4 WAY, 2 SWITCHED WAYS, AND 2 FAULT INTERRUPTING WAYS c/w MOTOR OPERATION PROVISIONS.
MANUFACTURER: MFG. CAT# MODEL (& PART #):	CANADA POWER PRG6-44-29.3 6TT6/ 898 (801C1781)
SWG	SWITCHGEAR, 28 KV, PADMOUNTED, SF6 SWITCH/ RFI, 4 WAY WITH TWO (2) - 3 PHASE SWITCHED WAYS, AND TWO (2) 3-SINGLE PHASE FAULT INTERRUPTING WAYS c/w MOTOR OPERATION PROVISIONS.
MANUFACTURER: MFG. CAT# MODEL (& PART #):	CANADA POWER PRG61/3 - 44 - 29.3 6TT6/ 898B (801C1810)
SWG	SWITCHGEAR, 28 KV, PADMOUNTED, SF6 SWITCH/ RFI, 4 WAY WITH TWO (2) - 3 PHASE SWITCHED WAYS, ONE (1) 3-PHASE FAULT INTERRUPTING WAY, AND ONE (1) 3-SINGLE PHASE FAULT INTERRUPTING WAY c/w MOTOR OPERATION PROVISIONS.
MANUFACTURER: MFG. CAT# MODEL (& PART #):	CANADA POWER PRG61/3 - 44 - 29.3 6TT6/ 898C (801C1809)
SWG	SWITCHGEAR, 28 KV, PADMOUNTED, SF6 SWITCH/ RFI, 3 PHASE, 4 WAY WITH 1 SWITCHED WAY, AND 3 FAULT INTERRUPTING WAYS
MANUFACTURER: MFG. CAT# MODEL (& PART #):	c/w MOTOR OPERATION PROVISIONS. CANADA POWER PRG6 - 44 - 29.3 6TTT/ 898 (801C1767)
SWG	SWITCHGEAR, 28 KV, PADMOUNTED, SF6 SWITCH/ RFI, 3 PHASE, 5
	WAY, (2) 3-PHASE SWITCHED WAYS, (2) 3-PHASE FAULT-
	INTERRUPTING WAYS, AND (1) 3-SINGLE PHASE FAULT-
MANUFACTURER: MFG. CAT# MODEL (& PART #):	INTERRUPTING WAYS c/w MOTOR OPERATION PROVISIONS. CANADA POWER PRG61/3-55-29.3 6TTT6/ 898 (801C1928)

KABSECTIONALIZING UNIT, THREE PHASE, THREE WAY, 200A, 25 KV,
74"(D)X 60"(W)X 30"(H), PROVISION FOR TWO WAY - FOUR WAY
MODULES, MUNSELL GREEN FINISH, 14 GAUGE STEEL, ENCLOSURE
ONLY, APPROX. 400 LBS.

MANUFACTURER:DURHAM COMPANYKABARMFG. CAT#AMSPR-12423-200A-28KVK503

3.6 Metering

MET METER SOCKET, S BASE, 200A, UNDERGROUND, 4 JAW, 2 - 1/2" "STUD" - LINE CONNECTIONS, 2 TERMINAL LOAD CONNECTIONS FOR 6 - 250MCM CABLE, CU/AL, RATED 600V, TYPE 3R ENCLOSURE (CSA APPROVED) **FOR USE ON NEW/ UPGRADED UNDERGROUND SERVICES INCLUDING SUBDIVISIONS.**

MANUFACTURER:	CUTLER-HAMMER	MICROELECTRIC	HYDEI
MFG. CAT#	CLX	MO2-V; MO2-VO	MSC400T1
MET	JAW, 2 - 1/2" "STUD" - LINE CO CONNECTIONS FOR 6 - 500MCM	/, SINGLE PHASE, UNDERGROU NNECTIONS, 2 TERMINAL LOA /I CABLE, CU/AL, EQUIPPED W G DEVICE, TYPE 3R ENCLOSUF	D ITH
MANUFACTURER:	EATON	HYDEL	
MFG. CAT#	TCC5-4	CT4-4	
MET	· · · ·	RMINALS - LINE CONNECTION RMINAL LOAD CONNECTIONS I	
MANUFACTURER:	MICROELECTRIC	HYDEL	
MFG. CAT#	BE2-V	SD220PW	
MET	UNDERGROUND, 4 JAW, 2 - 1/2'	S BASE, 200A MAIN, 200A POSITI ' "STUD" - LINE CONNECTIONS INS FOR 6 - 250MCM CABLE, CU URE (CSA APPROVED)	, 2
MANUFACTURER:	CUTLER-HAMMER	MICROELECTRIC	HYDEI
MFG. CAT#	2KU2CLX	BDC2-V	MSC23R
MET	UNDERGROUND, 4 JAW, 2 - 1/2'	S BASE, 200A MAIN, 200A POSITI ' "STUD" - LINE CONNECTIONS 'NS FOR 6 - 250MCM CABLE, CU URE (CSA APPROVED)	, 2
MANUFACTURER:	CUTLER-HAMMER	MICROELECTRIC	
MFG. CAT#	3KU2CLX	BDC3-V	

MET	METER SOCKET, 4 POSITION, S BASE, 200A MAIN, 200A POSITION,
	UNDERGROUND, 4 JAW, 2 - 1/2" "STUD" - LINE CONNECTIONS, 2
	TERMINAL LOAD CONNECTIONS FOR 6 - 250MCM CABLE, CU/AL,
	RATED 600V, TYPE 3R ENCLOSURE (CSA APPROVED)

MANUFACTURER: CUTLER-HAMMER MICROELECTRIC MFG. CAT# 4KU2CLX BDC4-V **METER SOCKET, 2 POSITION, 200A PER POSITION, UNDERGROUND,** MET 4 JAW, 2 TERMINAL LOAD CONNECTIONS FOR 6 - 250MCM CABLE, CU/AL, RATED 600V, TYPE 3R ENCLOSURE (CSA APPROVED) MANUFACTURER: MICROELECTRIC MFG. CAT# BD2-V (LEFT-HAND ENTRY) or BD2-VH (RIGHT-HAND ENTRY) MET METER SOCKET, 3 PHASE, S BASE, 200A, UNDERGROUND/OVERHEAD, 7JAW, 3 - 1/2" "STUD" - LINE **CONNECTIONS, 3 TERMINAL LOAD CONNECTIONS FOR 6 - 250MCM** CABLE, CU/AL, RATED 600V, TYPE 3 ENCLOSURE (CSA APPROVED) MANUFACTURER: CUTLER-HAMMER MICROELECTRIC MFG. CAT# P27 PL27-TCV MET METER SOCKET, 5 JAW, TRANSFORMER RATED, 20 AMP, 600V MAX. **CONDUCTOR RANGE 14 - 10 AWG. CIRCUIT CLOSING FEATURE TO** SHORT OUT CURRENT TRANSFORMER UPON REMOVAL OF METER. WEATHERPROOF TYPE 3R ENCLOSURE (CSA APPROVED). MANUFACTURER: CUTLER-HAMMER MICROELECTRIC MFG. CAT# TCC5-0 CL5-V **COMBINATION OVERHEAD/ UNDERGROUND METER SOCKET, 4** MET JAW, 200 AMP, 600V MAX. CONDUCTOR RANGE #6 - 250MCM AWG. ALUMINUM TUNNEL TYPE CONNECTORS, SUPPLIED WITH SCREW **TYPE RING . WEATHERPROOF TYPE 3R ENCLOSURE (CSA APPROVED). **USED PRIMARILY FOR OVERHEAD SERVICES, NOT NEW SUBDIVISIONS/ UNDERGROUND SERVICES UNLESS OTHERWISE SPECIFIED BY HHH ENGINEERING.****

MANUFACTURER:	CUTLER-HAMMER	MICROELECTRIC	HYDEI
MFG. CAT#	LM2	BS2-TCV	SLC400R
MET		(CABINET), WOODEN BACKPA	
		BASE, DOORLESS FOR USE IN 1	INSTALLATIONS
	WHERE METER IS RE	CESSED.	
MANUFACTURER:	HYDEL		
MFG. CAT#	ST301812SC (DOORLESS)		
	NOTE: ALL METER BASES INST	TALLED IN HALTON HILLS MUST BE CSA A	PPROVED FOR USE IN
	CANADA.		

CON	FOUNDATI
	TRANSFOR
	POLY SEAL

DUNDATION, PRECAST CONCRETE BASE, FOR SINGLE PHASE PADMOUNTED RANSFORMERS, UP TO 100 KVA, TOTAL WEIGHT APPROX. 1818 KG (4000 LBS), 32 -DLY SEAL CABLE ENTRY

MANUFACTURER: MFG. CAT# OUTER DIMENSION OPENING	ACTON PRECAST LP58P 58"X40"X42"(D) 34"X28"	B 5	8ROOKLIN CONC 8CP-110PC 58"X40"X42"(D 84"X28"		1	ECS ECS-189 58"X40"X42" (D) 34"X28"
CON	FOUNDATION, PREC TRANSFORMERS, UF POLY SEAL CABLE F	P TO 100 KVA, T	,			
MANUFACTURER: MFG. CAT# OUTER DIMENSION OPENING	ACTON PRECAST LPC48 48"X48"X46"(D) 26"X33"	BROOKLIN CONCRET BCP-110PC 40"X58"X42"(D) 28"X34"		ICS ICS-189 40"X58"X42"(D) 28"X34"	UTILIO UW4053 40"X53 28"X34	BC 8''X48''(D)
CON	FOUNDATION, PREC TRANSFORMERS, UF POLY SEAL CABLE F REMAINS THE DEVE PROPERLY SIT ON T	P TO 2000 KVA, ENTRY (FOR TF CLOPERS RESPO	TOTAL WH RANSFROM ONSIBILIT	EIGHT APPROX. 3 IERS LARGER TH Y TO ENSURE TR	629 KG (8 IAN 2000K ANSFROM	000 LBS), 32 - VA, IT 1ER WILL
MANUFACTURER: MFG. CAT# OUTER DIMENSION OPENING	ACTON PRECAST LPC80 80"X72"X48"(D) 18"X44"					
CON	FOUNDATION, PREC UNITS, TOTAL WEIG					
MANUFACTURER: MFG. CAT#	ACTON PRECAST K-BAR SWITCH		BROOKLIN CONC BCP-109	RETE		ICS ICS-150
OUTER DIMENSION	48"X34"X42"(D)	4	19"X38"X42"(D	0		45"X24"X42"(D)
OPENING	12"X36"	2	26"X37"			42"X12"
CON	FOUNDATION, PREC PADMOUNTED, SF6, POLYSEAL CABLE E	3 PHASE, 4 WA	AY, TOTAL	WEIGHT APPRO	X. 2650 K	· · · ·
MANUFACTURER: MFG. CAT# OUTER DIMENSION OPENING	ACTON PRECAST B9660 & P9660 96"X60"X48"(D) 71"X24"	В	BROOKLIN CONC	RETE	:	ICS
CON	FOUNDATION, CONC SWITCHGEAR, TOTA ENTRY	,				
MANUFACTURER: MFG. CAT# OUTER DIMENSION OPENING	ACTON PRECAST SPECIAL ORDER 78"X85"X48"(D) 77"X36"	BC 78	ROOKLIN CONCR CP 330-P 3"X85"X48"(D) 7"X36"		1	ICS ICS-191 78"X85"X48"(D) 77"X36"
CON	LID, CONCRETE, 96" SWITCHGEAR ONTO FOUNDATIONS, CON LOAD 2,200 LBS. **US APPROVAL FROM H) EXISTING S&(CRETE 32 Mpa, SED ONLY IN C	C PADMOU , AIR 5-7%, CONJUNCTI	INT SWITCHGEA APPROX. WEIGH	R CONCR IT 3000 LE	ETE 85, DESIGN
MANUFACTURER: MFG. CAT# OUTER DIMENSION OPENING	ACTON PRECAST P9678 96"X78"X6"(H) 71"(W)X24"(D)					

<u>Note:</u> It is the developers responsibility to ensure that their equipment will sit properly on above listed concrete foundations. All equipment must be securely fastened to concrete lid/ foundation as applicable.

FAU

UNDERGROUND FAULT INDICATOR, SINGLE PHASE, PULSE - PAUSE - ZERO (PPZ), LOAD LEVELING, AUTOMATIC/ MANUAL RESET, 200A TRIP, 4 HOUR TIME RESET, WITH FIBER OPTIC CABLE ASSEMBLY (6FT CABLE).

MANUFACTURER: MFG. CAT# CABLE O.D. FIBER OPTIC CABLE ASSEMBLY CAT#:

HORSTMANN 29-6028-000 22mm - 50mm

49-6007-106

NOTES: APPROVED BY HALTON HILLS HYDRO - AUGUST 28, 2012 GRD GROUND PLATES, COPPER, 7" X 7-5/8" SIZE, 0.025" PURE COPPER (MUST BE APPROVED ON A CASE-BY-CASE BASIS)

MANUFACTURER: BLACKBURN MFG. CAT# PBGW

GRD001 ROD, GROUND, 3.0M (10') X 19 MM (3/4"), TYPE 2 STEEL, GALVANIZED, CSA C83.41

MANUFACTURER:	HYDEL	KABAR
MFG. CAT#	3410G	K61-5
MANUFACTURER:	BLACKBURN	GRAFTON
MFG. CAT#	GR7510	GR3410

CHANCE 8620

GRD002 CONNECTOR, GROUND ROD, 1 - BOLT CLAMP, COPPER, FOR 3/4" GROUND ROD TO #8 - #2/0 AWG STRANDED BARE COPPER

MANUFACTURER: MFG. CAT#	BURNDY GRC3426	CHANCE C203-0345	BLACKBURN JAB1H	GRAFTON GRG34B
GRD	CONNECTOR, GROUND ROD, I GROUND ROD TO #8 - #2/0 AWO	· · · · · · · · · · · · · · · · · · ·	,	/4''
MANUFACTURER: MFG. CAT#	BLACKBURN GUV5821	BURNDY GAR6426		HANCE C-111-3B
WIR042	WIRE, COPPER, FOR GROUNI SOFT DRAWN) BUS, #2/0 AWG, E	BARE, 19 STRAN	D,
MANUFACTURER:	PRYSMIAN (formerly PIRELLI)	BICC	AL	CATEL
MFG. CAT# MANUFACTURER: MFG. CAT#	ALCAN			

ннн сат #	JACKET, COLD SHRINK, FOR AWG, 28 kV SPLICES 3M CAT#	28" OPENING, 1.15 - 3.3" O.D. F # 5451	OR #1/0
UGM	CABLE END CAP, HEAT SHRI CABLE	NK, FOR SEALING 1.77" to 3.15"	O.D.
MANUFACTURER: MFG. CAT#	SKE-45/100	ESC-6/A	23210-B2
UGM	JACKET, COLD SHRINK, FOR AWG, 28 kV SPLICES 3M CAT#	28" OPENING, 1.15 - 3.3" O.D. F # 5451	OR #1/0
MANUFACTURER: MFG. CAT#	3M SJ-2A		
UGM		HEAT SHRINK, 15.5" LONG, 0.3 ABLE, RATED 1000V, CSA CERT	
MANUFACTURER: MFG. CAT#	3M ITCSN-1100-48	RAYCHEM WCSM-33/8-1200-S	ILSCO 21412-B2
UGM		HEAT SHRINK, 15.5" LONG, 0.7 CABLE, RATED 1000V, CSA CE	
MANUFACTURER: MFG. CAT#	3M ITCSN-1500-48	RAYCHEM WCSM-51/16-1200-S	ILSC0 21712-B
UGM	TAPE, RUBBER, SILICONE, SE	ELF-FUSING, 1"x30'x20 MILS	
MANUFACTURER:	3M	PLYMOUTH	ARMET
MFG. CAT#	SCOTCH 70	3455	AR386
UGM	TAPE, SEMI-CON, RUBBER BU	JTYL - 3/4"x15'x30 MILS	
MANUFACTURER:	зм	ROTUNDA	PLYMOUTH
MFG. CAT#	13	2525	2104
UGM	TAPE, SELF AMALGAMATIN	NG, POLYETHYLENE - SAPT -	2"x30'x20
	MILS, RATED UPTO 69 KV, M	DISTURE AND OZONE RESISTA	NT
MANUFACTURER: MFG. CAT#	3M 130C	ROTUNDA 2501	PLYMOUTH 2211
UGM	TAPE, BLACK, PVC - 3/4" x 66'	x 8.5 MILS, ASTM-D-3005 & CSA	22.2
MANUFACTURER: MFG. CAT#	3M SCOTCH SUPER 88	PLYMOUTH 4240-PREMIUM-85CW	ROTUNDA 6408B
UGM	TAPE, BLACK, PVC - 2" x 66' x	8.5 MILS, ASTM-D-3005 & CSA 2	22.2
MANUFACTURER: MFG. CAT#	3M SCOTCH SUPER 88	PLYMOUTH 4311-PREMIUM-85CW	ROTUNDA 6408B
UGM	TAPE, COLOR CODING, RED, CSA 22.2	PVC - 3/4"x 66' X 7mils, ASTM-D	-3005 &
MANUFACTURER: MFG. CAT#	3M SCOTCH 35-RED	PLYMOUTH 3704-PREMIUM 37-RED	ROTUNDA 2702-RED
UGM	TAPE, COLOR CODING, WHIT & CSA 22.2	TE, PVC- 3/4" x 66' X 7mils, ASTM	I-D-3005
MANUFACTURER: MFG. CAT#	3M SCOTCH 35-WHITE	PLYMOUTH 3706-PREMIUM 37-WHITE	ROTUNDA 2702-WHITE
UGM	TAPE, COLOR CODING, BLUE CSA 22.2	C, PVC - 3/4" x 66' X 7mils, ASTM-	D-3005 &
MFG. CAT#	3M SCOTCH 35-BLUE	PLYMOUTH 3705-PREMIUM 37-BLUE	ROTUNDA 2702-BLUE
UGM	LUBRICANT, CABLE PULLING COMPATIBLE, 5 GALLON CO	G, HEAVY DUTY, NON-TOXIC, I NTAINER	PE & PVC
MANUFACTURER: MFG. CAT#	3M WL-5	IDEAL YELLOW 77	BLACKBURN 15-632UT
UGM	OXIDE INHIBITOR COMPOUN TOXIC, 8 OZ SQUEEZE BOTT	ND, NON-PETROLEUM BASED, 1 LE	NON-
MANUFACTURER: MFG. CAT# MANUFACTURER:	BLACKBURN CTB8 ILSCO	BURNDY PENETROXA13	ELASTIMOLD 2201-8
mfg. cat# UGM	de-ox(8 oz) MARKER, BALL, "RED", ELEG LOCATING OF SPLICES / DUC	CTRONIC, 4' DEPTH FOR THE T BANKS / SUBSURFACE EQUI	PMENT
MANUFACTURER: MFG. CAT#	3M 1402		

MANUFACTURER: MFG. CAT#	3M 1401		
UGM	MARKER, DISC, "BLACK", EL THE LOCATING OF SPLICES EQUIPMENT	ECTRONIC, MID RANGE 6' DEF ' DUCT BANKS / SUBSURFACE	TH FOR
MANUFACTURER: MFG. CAT#	3M 1256		
UGM		ECTRONIC, FULL RANGE, 8' D CES / DUCT BANKS / SUBSURFA	
MANUFACTURER: MFG. CAT#	3M 1251		
UGM035	GUARD, CABLE, STRAIGHT, GAUGE STEEL, CSA C83.53 SP	3-1/4" X 8', GALVANIZED STEEL ECIFICATION	., 14
MANUFACTURER: MFG. CAT# MANUFACTURER: MFG. CAT#	HYDEL AG3148 KABAR K48-9A	MICROELECTRIC UG8314 CHANCE 6535	SLACAN 7535
UGM036	GUARD, CABLE, FLARED BOT CSA C83.54 SPECIFICATION	TTOM, 3-1/4" X 8', GALVANIZEI) STEEL,
MANUFACTURER: MFG. CAT#	HYDEL AG3148F	MICROELECTRIC UGF8314	KABAR SLACAN K48-9F 61813
UGM37	THROAT CLIP, FOR 3-1/4" GU	ARD, CABLE, ALUMINUM ALLO	DY
MANUFACTURER: MFG. CAT#	HYDEL ATC314	KABAR K48-32	JOSLYN 10881
UGM038	STRAP, FOR 3-1/4" GUARD, CA	ABLE, GALVANIZED STEEL, CSA	A C83.55
MANUFACTURER: MFG. CAT# MANUFACTURER: MFG. CAT#	HYDEL 314SUC KABAR K48-23	MICROELECTRIC SUG314 CHANCE 6540	SLACAN 22266
UGM	PUTTY, ELECTRICAL INSULA RATED 600V	TING, 1-1/2" X 5', "SCOTCHFIL"	",
MANUFACTURER: MFG. CAT#	3M SCOTCHFIL		
LOC001	PADLOCK, SOLID BRASS SHA	CKLE AND BODY, KEYED A LII	KE
MANUFACTURER: MFG. CAT#	CISA	ABUS	
		ABUS ANING CABLE INSULATION, (N	DN-
MFG. CAT#	CLEANER, CABLE, FOR CLEA		DN-
MFG. CAT# UGM MANUFACTURER:	CLEANER, CABLE, FOR CLEA TRACKING) beloo safety supply s1561	ANING CABLE INSULATION, (No	
MFG. CAT# UGM MANUFACTURER: MFG. CAT#	CLEANER, CABLE, FOR CLEA TRACKING) BELCO SAFETY SUPPLY 51561 CEMENT, CONDUIT, FOR PV0	ANING CABLE INSULATION, (No 3M CC4	
MFG. CAT# UGM MANUFACTURER: MFG. CAT# UGM MANUFACTURER:	CLEANER, CABLE, FOR CLEA TRACKING) BELCO SAFETY SUPPLY 51561 CEMENT, CONDUIT, FOR PV(SCREW TOP AND DAUBER ROYAL	ANING CABLE INSULATION, (No 3M CC4 C TYPE DB2/ES2 DUCT, 500 ML C 1PEX S100PT	C/W SMC
MFG. CAT# UGM MANUFACTURER: MFG. CAT# UGM MANUFACTURER: MFG. CAT#	CLEANER, CABLE, FOR CLEA TRACKING) BELCO SAFETY SUPPLY 51561 CEMENT, CONDUIT, FOR PVG SCREW TOP AND DAUBER ROYAL CC500	ANING CABLE INSULATION, (No 3M CC4 C TYPE DB2/ES2 DUCT, 500 ML C 1PEX S100PT	C/W SMC
MFG. CAT# UGM MANUFACTURER: MFG. CAT# UGM MANUFACTURER: MFG. CAT# BOL MANUFACTURER:	CLEANER, CABLE, FOR CLEA TRACKING) BELCO SAFETY SUPPLY 51561 CEMENT, CONDUIT, FOR PVO SCREW TOP AND DAUBER ROYAL CC500 BOLT, SILICON BRONZE, HE H.PAULIN	ANING CABLE INSULATION, (No 3M CC4 C TYPE DB2/ES2 DUCT, 500 ML C 1PEX 5100PT X HEAD, 1/2" X 1", ASTM B99 BURNDY HEB50X100	C/W SMC 1QTCEM BLACKBURN
MFG. CAT# UGM MANUFACTURER: MFG. CAT# UGM MANUFACTURER: MFG. CAT# MFG. CAT#	CLEANER, CABLE, FOR CLEA TRACKING) BELCO SAFETY SUPPLY 51361 CEMENT, CONDUIT, FOR PVO SCREW TOP AND DAUBER ROYAL CC500 BOLT, SILICON BRONZE, HE H, PAULIN 5400-579	ANING CABLE INSULATION, (No 3M CC4 C TYPE DB2/ES2 DUCT, 500 ML C 1PEX 5100PT X HEAD, 1/2" X 1", ASTM B99 BURNDY HEB50X100	C/W SMC 1QTCEM BLACKBURN
MFG. CAT# UGM MANUFACTURER: MFG. CAT# UGM MANUFACTURER: MFG. CAT# BOL MANUFACTURER: MFG. CAT# BOL MANUFACTURER:	CLEANER, CABLE, FOR CLEA TRACKING) BELCO SAFETY SUPPLY 51361 CEMENT, CONDUIT, FOR PVA SCREW TOP AND DAUBER ROYAL CCSDO BOLT, SILICON BRONZE, HE H. PAULIN 5400-579 BOLT, SILICON BRONZE, HE	ANING CABLE INSULATION, (No 3M CC4 C TYPE DB2/ES2 DUCT, 500 ML C IPEX S100PT X HEAD, 1/2" X 1", ASTM B99 BURNDY HEB50X100 X HEAD, 1/2" X 2", ASTM B99 BURNDY HEB50X200	C/W SMC lqtcem blackburn 50100Bb blackburn
MFG. CAT# UGM MANUFACTURER: MFG. CAT# UGM MANUFACTURER: MFG. CAT# BOL MANUFACTURER: MFG. CAT#	CLEANER, CABLE, FOR CLEA TRACKING) BELCO SAFETY SUPPLY 51561 CEMENT, CONDUIT, FOR PV SCREW TOP AND DAUBER ROYAL CCS00 BOLT, SILICON BRONZE, HE H. PAULIN 5400-579 BOLT, SILICON BRONZE, HE H. PAULIN 5400-586	ANING CABLE INSULATION, (No 3M CC4 C TYPE DB2/ES2 DUCT, 500 ML C IPEX S100PT X HEAD, 1/2" X 1", ASTM B99 BURNDY HEB50X100 X HEAD, 1/2" X 2", ASTM B99 BURNDY HEB50X200	C/W SMC lqtcem blackburn 50100Bb blackburn
MFG. CAT# UGM MANUFACTURER: MFG. CAT# UGM MANUFACTURER: MFG. CAT# BOL MANUFACTURER: MFG. CAT# NUT MANUFACTURER:	CLEANER, CABLE, FOR CLEA TRACKING) BELCO SAFETY SUPPLY 51561 CEMENT, CONDUIT, FOR PVO SCREW TOP AND DAUBER ROYAL CC500 BOLT, SILICON BRONZE, HE H.PAULIN 5400-579 BOLT, SILICON BRONZE, HE H.PAULIN 5400-566 NUT, SILICON BRONZE, FOR H.PAULIN 5426-022	ANING CABLE INSULATION, (No 3M CC4 C TYPE DB2/ES2 DUCT, 500 ML O IPEX S100PT X HEAD, 1/2" X 1", ASTM B99 BURNDY HEB50X100 X HEAD, 1/2" X 2", ASTM B99 BURNDY HEB50X200 1/2" BOLT, ASTM B99 BURNDY	C/W SMC 1QTCEM BLACKBURN 50100BB BLACKBURN 50200BB BLACKBURN 50010HN
MFG. CAT# UGM MANUFACTURER: MFG. CAT# UGM MANUFACTURER: MFG. CAT# BOL MANUFACTURER: MFG. CAT# NUT MANUFACTURER: MFG. CAT#	CLEANER, CABLE, FOR CLEA TRACKING) BELCO SAFETY SUPPLY 51561 CEMENT, CONDUIT, FOR PVO SCREW TOP AND DAUBER ROYAL CC500 BOLT, SILICON BRONZE, HE H.PAULIN 5400-579 BOLT, SILICON BRONZE, HE H.PAULIN 5400-566 NUT, SILICON BRONZE, FOR H.PAULIN 5426-022	ANING CABLE INSULATION, (No 3M CC4 C TYPE DB2/ES2 DUCT, 500 ML C IPEX SloopT X HEAD, 1/2" X 1", ASTM B99 BURNDY HEB50X100 X HEAD, 1/2" X 2", ASTM B99 BURNDY HEB50X00 1/2" BOLT, ASTM B99 BURNDY HEN50	C/W SMC 1QTCEM BLACKBURN 50100BB BLACKBURN 50200BB BLACKBURN 50010HN
MFG. CAT# UGM MANUFACTURER: MFG. CAT# UGM MANUFACTURER: MFG. CAT# BOL MANUFACTURER: MFG. CAT# NUT MANUFACTURER: MFG. CAT# NUT MANUFACTURER: MFG. CAT#	CLEANER, CABLE, FOR CLEA TRACKING) BELCO SAFETY SUPPLY 51561 CEMENT, CONDUIT, FOR PVO SCREW TOP AND DAUBER ROYAL CC500 BOLT, SILICON BRONZE, HE H.PAULIN 5400-565 NUT, SILICON BRONZE, FOR H.PAULIN 5426-022 WASHER, SILICON BRONZE, H.PAULIN 5455-822	ANING CABLE INSULATION, (No 3M CC4 C TYPE DB2/ES2 DUCT, 500 ML O IPEX S100PT X HEAD, 1/2" X 1", ASTM B99 BURNDY HEB50X100 X HEAD, 1/2" X 2", ASTM B99 BURNDY HEB50X200 1/2" BOLT, ASTM B99 BURNDY HEN50 FLAT, FOR 1/2" BOLT, ASTM B	C/W SMC 1QTCEM BLACKBURN 50100BB BLACKBURN 50200BB BLACKBURN 50010HN 99 BLACKBURN 50040FW
MFG. CAT# UGM MANUFACTURER: MFG. CAT# UGM MANUFACTURER: MFG. CAT# BOL MANUFACTURER: MFG. CAT# NUT MANUFACTURER: MFG. CAT# WAS MANUFACTURER: MFG. CAT#	CLEANER, CABLE, FOR CLEA TRACKING) BELCO SAFETY SUPPLY 51561 CEMENT, CONDUIT, FOR PVO SCREW TOP AND DAUBER ROYAL CC500 BOLT, SILICON BRONZE, HE H.PAULIN 5400-565 NUT, SILICON BRONZE, FOR H.PAULIN 5426-022 WASHER, SILICON BRONZE, H.PAULIN 5455-822	ANING CABLE INSULATION, (No 3M CC4 C TYPE DB2/ES2 DUCT, 500 ML C IPEX SloopT X HEAD, 1/2" X 1", ASTM B99 BURNDY HEB50X100 X HEAD, 1/2" X 2", ASTM B99 BURNDY HEB50X00 1/2" BOLT, ASTM B99 BURNDY HEN50 FLAT, FOR 1/2" BOLT, ASTM B	C/W SMC 1QTCEM BLACKBURN 50100BB BLACKBURN 50200BB BLACKBURN 50010HN 99 BLACKBURN 50040FW
MFG. CAT# UGM MANUFACTURER: MFG. CAT# UGM MANUFACTURER: MFG. CAT# BOL MANUFACTURER: MFG. CAT# NUT MANUFACTURER: MFG. CAT# WAS MANUFACTURER: WAS MANUFACTURER:	CLEANER, CABLE, FOR CLEA TRACKING) BELCO SAFETY SUPPLY 51561 CEMENT, CONDUIT, FOR PV/ SCREW TOP AND DAUBER ROYAL CCS00 BOLT, SILICON BRONZE, HE H. PAULIN 5400-579 BOLT, SILICON BRONZE, HE H. PAULIN 5400-586 NUT, SILICON BRONZE, FOR H. PAULIN 5426-022 WASHER, SILICON BRONZE, I H. PAULIN 5455-822 WASHER, SILICON BRONZE, I	ANING CABLE INSULATION, (NO 3M CC4 C TYPE DB2/ES2 DUCT, 500 ML C IPEX SloopT X HEAD, 1/2" X 1", ASTM B99 BURNDY HEB50X100 X HEAD, 1/2" X 2", ASTM B99 BURNDY HEB50X200 1/2" BOLT, ASTM B99 BURNDY HEN50 FLAT, FOR 1/2" BOLT, ASTM B BURNDY FW50 SPLIT, FOR 1/2" BOLT, ASTM F BURNDY SW50 AINLESS STEEL, FOR 1/2" BOLT	C/W SMC 1QTCEM BLACKBURN S0100BB BLACKBURN S0200BB BLACKBURN S0010HN 99 BLACKBURN S0040FW S09 BLACKBURN S0030SW

MFG. CAT#	30155	50050BW	
	CAUTION TAPE, RU RED	GGED POLYETHYLENE, 6" WIDI	E, 1000' LENGTH,
MANUFACTURER: MFG. CAT#	BLACKBURN RT6	KLEIN 88003	IDEAL RT6
	DUCT SEALANT, AS	BESTOS FREE, FORM FITTING, I	N 1 LBS. SLUGS
MANUFACTURER: MFG. CAT#	BLACKBURN DX-5	IBF DUCT1	
ROP	POLY ROPE, 3/8", 15 STRENGTH	00' METAL SPOOL, 2440 LBS TEN	NSILE
MANUFACTURER: MFG. CAT#	CHANCE C417-0324	CANADA CORDAGE PRH6-1500	POLYTWINE 38-1500
	MARKERS, LETTER 7/8'' H	S, INDUSTRIAL REFLECTIVE YE	ELLOW, 1-3/4" X 2-
MANUFACTURER: MFG. CAT#	ALMETEK PS2.5BY		
	MARKERS, NUMBE 2-7/8" H	RS, INDUSTRIAL REFLECTIVE Y	ELLOW, 1-3/4" X
MANUFACTURER: MFG. CAT#	ALMETEK PS2.5RY		
	SEALANT, FOUNDA CONCRETE BASE, 1	TION, TO BE USED BETWEEN CC " WIDE	DLLAR AND
MANUFACTURER: MFG. CAT#	HAMILTON KENT G-KENT SEALER #2		
	WRAP, TIE FOR 3" I	BUNDLE, 50 LBS UNLOCKING STI	RENGTH
MANUFACTURER: MFG. CAT#	BURNDY TF6D	THOMAS & BETTS TY26MX	IDEAL 15-630
SAND	SANDFILL, UNIFOR AGGREGATE SIZE (MLY GRADED CLEAN SAND WIT DF 2.0MM	TH MAXIMUM
SAND C. SLAB		OF 2.0MM	TH MAXIMUM
	AGGREGATE SIZE	DF 2.0MM 4"X24"	'H MAXIMUM
C. SLAB	AGGREGATE SIZE (CONCRETE SLAB, 2 3/4" (20MM) CLEAR CONCRETE, 28 DAY	DF 2.0MM 4"X24" CRUSH STONE COMPRESSIVE STRENGTH OF 2 GATES WITH 10MM PEA GRAVEI	0MPa,
C. SLAB C. STONE	AGGREGATE SIZE (CONCRETE SLAB, 2 3/4" (20MM) CLEAR CONCRETE, 28 DAY MAXIMUM AGGRE(ACCORDANCE WIT SECONDARY CABLI	DF 2.0MM 4"X24" CRUSH STONE COMPRESSIVE STRENGTH OF 2 GATES WITH 10MM PEA GRAVEI	20MPa, L, IN TAG,
C. SLAB C. STONE CONCRETE TAG MANUFACTURER:	AGGREGATE SIZE (CONCRETE SLAB, 2 3/4" (20MM) CLEAR CONCRETE, 28 DAY MAXIMUM AGGRE ACCORDANCE WIT SECONDARY CABLI MINIATURE MARKI TECH. PRODUCTS INC. 3DFYXX SECONDARY CABLI NUMBERS/ LETTER	DF 2.0MM 4"X24" CRUSH STONE COMPRESSIVE STRENGTH OF 2 GATES WITH 10MM PEA GRAVEI H CSA-A23.1-M90 E TAGS, TECH. PRODUCTS FAST	0MPa, L, IN TAG, LE. ASTTAG
C. SLAB C. STONE CONCRETE TAG MANUFACTURER: MFG. CAT#	AGGREGATE SIZE (CONCRETE SLAB, 2 3/4" (20MM) CLEAR CONCRETE, 28 DAY MAXIMUM AGGRE ACCORDANCE WIT SECONDARY CABLI MINIATURE MARKI TECH. PRODUCTS INC. 3DFYxx SECONDARY CABLI	DF 2.0MM 4"X24" CRUSH STONE COMPRESSIVE STRENGTH OF 2 GATES WITH 10MM PEA GRAVEI H CSA-A23.1-M90 E TAGS, TECH. PRODUCTS FAST ERS, 0-9, LETTERS AS APPLICAB E TAG HOLDERS, 2 LINES, FOR F	0MPa, L, IN TAG, LE. ASTTAG
C. SLAB C. STONE CONCRETE TAG MANUFACTURER: MFG. CAT# TAG MANUFACTURER:	AGGREGATE SIZE (CONCRETE SLAB, 2 3/4" (20MM) CLEAR CONCRETE, 28 DAY MAXIMUM AGGRE(ACCORDANCE WIT SECONDARY CABLI MINIATURE MARKI TECH, PRODUCTS INC. 3DFYXX SECONDARY CABLI NUMBERS/ LETTER CHARACTERS) TECH, PRODUCTS INC. PHF2XX PRIMARY CABLE T	DF 2.0MM 4"X24" CRUSH STONE COMPRESSIVE STRENGTH OF 2 GATES WITH 10MM PEA GRAVEI H CSA-A23.1-M90 E TAGS, TECH. PRODUCTS FAST ERS, 0-9, LETTERS AS APPLICAB E TAG HOLDERS, 2 LINES, FOR F S (LENGTH TO FIT AN EXTRA TV AGS, 1" LETTER SIZE, VERTICAI	0MPa, L, IN TAG, LE. 'ASTTAG WO
C. SLAB C. STONE CONCRETE TAG MANUFACTURER: MFG. CAT#	AGGREGATE SIZE (CONCRETE SLAB, 2 3/4" (20MM) CLEAR CONCRETE, 28 DAY MAXIMUM AGGRE ACCORDANCE WIT SECONDARY CABLI MINIATURE MARKI TECH, PRODUCTS INC. 3DFYAZ SECONDARY CABLE NUMBERS/ LETTER CHARACTERS) TECH, PRODUCTS INC. PHF2XX PRIMARY CABLE T YELLOW, EVERLASS TECH, PRODUCTS INC.	DF 2.0MM 4"X24" CRUSH STONE COMPRESSIVE STRENGTH OF 2 GATES WITH 10MM PEA GRAVEI H CSA-A23.1-M90 E TAGS, TECH. PRODUCTS FAST ERS, 0-9, LETTERS AS APPLICAB E TAG HOLDERS, 2 LINES, FOR F S (LENGTH TO FIT AN EXTRA TV AGS, 1" LETTER SIZE, VERTICAI	00MPa, L, IN TAG, LE. ASTTAG WO L, BLACK ON
C. SLAB C. STONE CONCRETE TAG MANUFACTURER: MFG. CAT# TAG MANUFACTURER: MFG. CAT#	AGGREGATE SIZE (CONCRETE SLAB, 2 3/4" (20MM) CLEAR CONCRETE, 28 DAY MAXIMUM AGGRE(ACCORDANCE WIT SECONDARY CABLI MINIATURE MARKI TECH, PRODUCTS INC. 9HF2XX PRIMARY CABLE T YELLOW, EVERLAS TECH, PRODUCTS INC. 9HF2XX PRIMARY CABLE T	DF 2.0MM 4"X24" CRUSH STONE COMPRESSIVE STRENGTH OF 2 GATES WITH 10MM PEA GRAVEJ H CSA-A23.1-M90 E TAGS, TECH. PRODUCTS FAST ERS, 0-9, LETTERS AS APPLICAB E TAG HOLDERS, 2 LINES, FOR F S (LENGTH TO FIT AN EXTRA TV AGS, 1" LETTER SIZE, VERTICAJ T, NUMBERS 0-9. :Y003, ELVIY004, ELVIKY05, ELVIY006, ELVI	10MPa, L, IN TAG, LE. ASTTAG WO L, BLACK ON KY007, ELVKY008,
C. SLAB C. STONE CONCRETE TAG MANUFACTURER: MFG. CAT# TAG MANUFACTURER: MFG. CAT#	AGGREGATE SIZE (CONCRETE SLAB, 2 3/4" (20MM) CLEAR CONCRETE, 28 DAY MAXIMUM AGGRE(ACCORDANCE WIT SECONDARY CABLI MINIATURE MARKI TECH, PRODUCTS INC. 9HF2XX PRIMARY CABLE T YELLOW, EVERLAS TECH, PRODUCTS INC. 9HF2XX PRIMARY CABLE T	DF 2.0MM 4"X24" CRUSH STONE COMPRESSIVE STRENGTH OF 2 GATES WITH 10MM PEA GRAVEI H CSA-A23.1-M90 E TAGS, TECH. PRODUCTS FAST ERS, 0-9, LETTERS AS APPLICAB E TAG HOLDERS, 2 LINES, FOR F S (LENGTH TO FIT AN EXTRA TV AGS, 1" LETTER SIZE, VERTICAL T, NUMBERS 0-9. Y003, ELVKY004, ELVKY005, ELVKY006, ELVF AGS, 1" LETTER SIZE, VERTICAL T, LETTERS P, F S, K, G.	10MPa, L, IN TAG, LE. ASTTAG WO L, BLACK ON KY007, ELVKY008,
C. SLAB C. STONE CONCRETE TAG MANUFACTURER: MFG. CAT# TAG MANUFACTURER: MFG. CAT# TAG MANUFACTURER: MFG. CAT#	AGGREGATE SIZE (CONCRETE SLAB, 2 3/4" (20MM) CLEAR CONCRETE, 28 DAY MAXIMUM AGGRE ACCORDANCE WIT SECONDARY CABLI MINIATURE MARKI TECH, PRODUCTS INC. 3DFYAZ SECONDARY CABLE NUMBERS/ LETTER CHARACTERS) TECH, PRODUCTS INC. PHF2xx PRIMARY CABLE T. YELLOW, EVERLAS TECH, PRODUCTS INC. ELVKY000, ELVKY010 PRIMARY CABLE T. YELLOW, EVERLAS TECH, PRODUCTS INC. ELVKY01, ELVKY010 PRIMARY CABLE T. YELLOW, EVERLAS	DF 2.0MM 4"X24" CRUSH STONE COMPRESSIVE STRENGTH OF 2 GATES WITH 10MM PEA GRAVEI H CSA-A23.1-M90 E TAGS, TECH. PRODUCTS FAST ERS, 0-9, LETTERS AS APPLICAB E TAG HOLDERS, 2 LINES, FOR F S (LENGTH TO FIT AN EXTRA TV AGS, 1" LETTER SIZE, VERTICAI T, NUMBERS 0-9. (Y003, ELVKY004, ELVKY005, ELVKY006, ELVF AGS, 1" LETTER SIZE, VERTICAI T, LETTERS P, F S, K, G. ELVKYK, ELVKY0 AGS, 1" LETTER SIZE, VERTICAI T, WORDS - RISER, SWITCH, SW	20MPa, L, IN TAG, LE. ASTTAG WO L, BLACK ON L, BLACK ON
C. SLAB C. STONE CONCRETE CONCRETE TAG MANUFACTURER: MFG. CAT# TAG MANUFACTURER: MFG. CAT# TAG MANUFACTURER: MFG. CAT#	AGGREGATE SIZE (CONCRETE SLAB, 2 3/4" (20MM) CLEAR CONCRETE, 28 DAY MAXIMUM AGGRE(ACCORDANCE WIT SECONDARY CABLI MINIATURE MARK) TECH, PRODUCTS INC. 3DFYXX SECONDARY CABLI NUMBERS/ LETTER CHARACTERS) TECH, PRODUCTS INC. PHF2XX PRIMARY CABLE T YELLOW, EVERLAS TECH, PRODUCTS INC. ELVKY001, ELVKY001 PRIMARY CABLE T YELLOW, EVERLAS TECH, PRODUCTS INC. ELVKY002, ELVKY010 PRIMARY CABLE T YELLOW, EVERLAS TECH, PRODUCTS INC. ELVKY02 (RISER), ELVKYS)	DF 2.0MM 4"X24" CRUSH STONE COMPRESSIVE STRENGTH OF 2 GATES WITH 10MM PEA GRAVEI H CSA-A23.1-M90 E TAGS, TECH. PRODUCTS FAST ERS, 0-9, LETTERS AS APPLICAB E TAG HOLDERS, 2 LINES, FOR F S (LENGTH TO FIT AN EXTRA TV AGS, 1" LETTER SIZE, VERTICAI T, NUMBERS 0-9. (Y003, ELVKY004, ELVKY005, ELVKY006, ELVF AGS, 1" LETTER SIZE, VERTICAI T, LETTERS P, F S, K, G. ELVKYK, ELVKY0 AGS, 1" LETTER SIZE, VERTICAI T, WORDS - RISER, SWITCH, SW	20MPa, L, IN TAG, LE. ASTTAG WO L, BLACK ON L, BLACK ON ITCHGEAR,
C. SLAB C. STONE CONCRETE TAG MANUFACTURER: MFG. CAT# TAG MANUFACTURER: MFG. CAT# TAG MANUFACTURER: MFG. CAT#	AGGREGATE SIZE (CONCRETE SLAB, 2 3/4" (20MM) CLEAR CONCRETE, 28 DAY MAXIMUM AGGRE(ACCORDANCE WIT SECONDARY CABLI MINIATURE MARKI TECH, PRODUCTS INC. 3DFYXX SECONDARY CABLI NUMBERS/ LETTER CHARACTERS) TECH, PRODUCTS INC. PHF2XX PRIMARY CABLE T YELLOW, EVERLAS TECH, PRODUCTS INC. ELVKY00, ELVKY010 PRIMARY CABLE T YELLOW, EVERLAS TECH, PRODUCTS INC. ELVKY01, ELVKY10 ELVKYF, ELVKYF, ELVKYS, PRIMARY CABLE T YELLOW, EVERLAS TECH, PRODUCTS INC. ELVKYF, ELVKYF, ELVKYS, PRIMARY CABLE T YELLOW, EVERLAS TRANS., BLUE, RED TECH, PRODUCTS INC.	DF 2.0MM 4"X24" CRUSH STONE COMPRESSIVE STRENGTH OF 2 GATES WITH 10MM PEA GRAVEI H CSA-A23,1-M90 E TAGS, TECH. PRODUCTS FAST ERS, 0-9, LETTERS AS APPLICAB E TAG HOLDERS, 2 LINES, FOR F S (LENGTH TO FIT AN EXTRA TV AGS, 1" LETTER SIZE, VERTICAI T, NUMBERS 0-9. IV003, ELVKY004, ELVKY005, ELVKY006, ELVK AGS, 1" LETTER SIZE, VERTICAI T, LETTERS P, F S, K, G. ELVKYK, ELVKYG AGS, 1" LETTER SIZE, VERTICAI T, WORDS - RISER, SWITCH, SW YELLOW.	20MPa, L, IN TAG, LE. ASTTAG WO L, BLACK ON KY007, ELVKY008, L, BLACK ON ITCHGEAR, KY089 (TRANS.),